



EUROPEAN SPALLATION SOURCE

Projekt name: Accelerator ODH Detection System
Functional Location (FBS): =ESS.ACC.F02 (ODH DETECTION SYSTEM)
Physical Location (LBS):

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD		2017-09-01	Accelerator ODH Detection System	ESS-0089356			
				MM			Title page / cover sheet	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				SLB		01-Sep-17		Preliminary	A3	1	2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY				SHEET =ESS.ACC.F02&AA/1			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE		ESS		NEXT 2			



SYMBOLS AND INFORMATION

PROTECTIVE EARTH, PE



FUNCTIONAL EARTH



MINIMUM CONDUCTOR CROSS SECTION AREA FOR CONTROL CIRCUITS: 0,5mm²

MINIMUM CONDUCTOR CROSS SECTION AREA FOR POWER CIRCUITS: 1,5mm²

SS-EN 60204

Identification of conductors:

Conductors for	Colour
Neutral	Light blue
Earth	Green and Yellow
AC Power circuits and DC Power circuits above 50V	Black
DC Control circuits and DC Power circuits below 50V	+V Dark blue, 0V Dark blue with white stripe
AC Control circuits	Red
Excepted circuits	Orange
AC Control circuits	L+ Violet, L – Violet with white colored ring in both ends

IEC 60757

Code for identification of colors:

Colour	Letter Code
Black	BK
Brown	BN
Red	RD
Orange	OG
Yellow	YE
Green	GN
Blue	BU
Violet	VT
Grey	GY
White	WH
Pink	PK
Gold	GD
Turquoise	TQ
Silver	SR
Green and Yellow	GNYE

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2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	MM & ATD	2017-09-01	Accelerator ODH Detection System	ESS-0089356			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	MM		Graphic	Preliminary	A3	1	2
				SLB	01-Sep-17	FUNCTION	=ESS.ACC.F02&AA/2			
				DESIGN SITE			NEXT			
				ESS			&AB/1			



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=ESS.ACC.F02

ODH Detection System

AA/1	Title page			2	2017-09-01	MM & ATD
AA/2	General Information			2	2017-09-01	MM & ATD
AB/1	Table of contents		THIS IS A TEST	2	2017-09-01	MM & ATD
AB/1.1	Table of contents			2	2017-09-01	MM & ATD
AB/1.2	Table of contents			2	2017-09-01	MM & ATD
AB/1.3	Table of contents			2	2017-09-01	MM & ATD
AB/1.4	Table of contents			2	2017-09-01	MM & ATD
AB/1.5	Table of contents			2	2017-09-01	MM & ATD
AB/1.6	Table of contents			2	2017-09-01	MM & ATD
AB/1.7	Table of contents			2	2017-09-01	MM & ATD
AB/1.8	Table of contents			2	2017-09-01	MM & ATD
AB/1.9	Table of contents			2	2017-09-01	MM & ATD
AB/1.10	Table of contents			2	2017-09-01	MM & ATD
AB/1.11	Table of contents			2	2017-09-01	MM & ATD
AB/1.12	Table of contents			2	2017-09-01	MM & ATD
AB/1.13	Table of contents			2	2017-09-01	MM & ATD
LD/1	System Architecture 20170314			2	2017-09-01	MM & ATD
LD/1.1	System Architecture 20170315			2	2017-09-01	MM & ATD
LD/2	Physical Topology 20170315			2	2017-09-01	MM & ATD
LD/3	HCB-ODH Monitors-Distribution map			2	2017-09-01	MM & ATD
LD/4	HCB-Red Strobe Lights & Acoustic Sirens-Distribution map			2	2017-09-01	MM & ATD
LD/5	CXB-ODH Monitors-Distribution map			2	2017-09-01	MM & ATD
LD/6	CXB-Red Strobe Lights & Acoustic Sirens-Distribution map			2	2017-09-01	MM & ATD
LD/7	CTL-ODH Monitors-Distribution map			2	2017-09-01	MM & ATD

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				MM & ATD	2017-09-01	Accelerator ODH Detection System	ESS-0089356
				CHECKED BY MM		PAGE TYPE Table of contents	LIFECYCLE LABEL Preliminary
				APPROVED BY SLB	DATE 01-Sep-17	FUNCTION THIS IS A TEST	PAGE SIZE A3
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							REV 2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams				SHEET =ESS.ACC.F02&AB/1
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.				NEXT 1.1

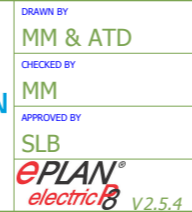


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=ESS.ACC.F02						
ODH Detection System						
	PD/1	Summarized parts list : - SIE.6AV2124-0QC02-0AX0		2	2017-09-01	MM & ATD
	PD/1.1	Summarized parts list : SIE.6EP1334-2BA20 - SIE.LZS:PT3A5L24		2	2017-09-01	MM & ATD
=ESS.ACC.F02.B01						
ODH Detectors						
	FS/1	BQ1-Oxygen Deficiency Monitor		2	2017-09-01	MM & ATD
	FS/2	BQ2-Oxygen Deficiency Monitor		2	2017-09-01	MM & ATD
	FS/3	BQ3-Oxygen Deficiency Monitor		2	2017-09-01	MM & ATD
	FS/4	BQ4-Oxygen Deficiency Monitor		2	2017-09-01	MM & ATD
	FS/5	BQ5-Oxygen Deficiency Monitor		2	2017-09-01	MM & ATD
	FS/6	BQ6-Oxygen Deficiency Monitor		2	2017-09-01	MM & ATD
	FS/7	BQ7-Oxygen Deficiency Monitor		2	2017-09-01	MM & ATD
	FS/8	BQ8-Oxygen Deficiency Monitor		2	2017-09-01	MM & ATD
	FS/9	BQ9-Oxygen Deficiency Monitor		2	2017-09-01	MM & ATD
	FS/10	BQ10-Oxygen Deficiency Monitor		2	2017-09-01	MM & ATD
	FS/11	BQ11-Oxygen Deficiency Monitor		2	2017-09-01	MM & ATD
	FS/12	BQ12-Oxygen Deficiency Monitor		2	2017-09-01	MM & ATD
	FS/13	BQ13-Oxygen Deficiency Monitor		2	2017-09-01	MM & ATD
	FS/14	BQ14-Oxygen Deficiency Monitor		2	2017-09-01	MM & ATD
	FS/15	BQ15-Oxygen Deficiency Monitor		2	2017-09-01	MM & ATD
	FS/16	BQ16-Oxygen Deficiency Monitor		2	2017-09-01	MM & ATD
	FS/17	BQ17-Oxygen Deficiency Monitor		2	2017-09-01	MM & ATD
	FS/18	BQ18-Oxygen Deficiency Monitor		2	2017-09-01	MM & ATD
	FS/19	BQ19-Oxygen Deficiency Monitor		2	2017-09-01	MM & ATD

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							REV 2	
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams					SHEET =ESS.ACC.F02&AB/1.1
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ODH Detectors

FS/20	BQ20-Oxygen Deficiency Monitor		2	2017-09-01	MM & ATD
FS/21	BQ21-Oxygen Deficiency Monitor		2	2017-09-01	MM & ATD
FS/22	BQ22-Oxygen Deficiency Monitor		2	2017-09-01	MM & ATD
MB/1	Cable diagram		2	2017-09-01	MM & ATD
MB/2	Cable diagram		2	2017-09-01	MM & ATD
MB/3	Cable diagram		2	2017-09-01	MM & ATD
MB/4	Cable diagram		2	2017-09-01	MM & ATD
MB/5	Cable diagram		2	2017-09-01	MM & ATD
MB/6	Cable diagram		2	2017-09-01	MM & ATD
MB/7	Cable diagram		2	2017-09-01	MM & ATD
MB/8	Cable diagram		2	2017-09-01	MM & ATD
MB/9	Cable diagram		2	2017-09-01	MM & ATD
MB/10	Cable diagram		2	2017-09-01	MM & ATD
MB/11	Cable diagram		2	2017-09-01	MM & ATD
MB/12	Cable diagram		2	2017-09-01	MM & ATD
MB/13	Cable diagram		2	2017-09-01	MM & ATD
MB/14	Cable diagram		2	2017-09-01	MM & ATD
MB/15	Cable diagram		2	2017-09-01	MM & ATD
MB/16	Cable diagram		2	2017-09-01	MM & ATD
MB/17	Cable diagram		2	2017-09-01	MM & ATD
MB/18	Cable diagram		2	2017-09-01	MM & ATD
MB/19	Cable diagram		2	2017-09-01	MM & ATD
MB/20	Cable diagram		2	2017-09-01	MM & ATD
MB/21	Cable diagram		2	2017-09-01	MM & ATD

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MM		Table of contents	Preliminary	A3	1	2

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ODH Detectors

MB/22	Cable diagram			2	2017-09-01	MM & ATD
PC/1	Part List			2	2017-09-01	MM & ATD
PC/1.1	Part List			2	2017-09-01	MM & ATD
PC/1.2	Part List					MM & ATD

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Enclosures

PC/1	Part List					MM & ATD
PC/1.1	Part List					MM & ATD
PC/1.2	Part List					MM & ATD
PC/1.3	Part List					MM & ATD
PC/1.4	Part List					MM & ATD
PC/1.5	Part List					MM & ATD
PC/1.6	Part List					MM & ATD
PC/1.7	Part List					MM & ATD
PC/1.8	Part List					MM & ATD
PC/1.9	Part List					MM & ATD
PC/1.10	Part List					MM & ATD
PC/1.11	Part List					MM & ATD
PC/1.12	Part List					MM & ATD
PC/1.13	Part List					MM & ATD
PC/1.14	Part List					MM & ATD
PC/1.15	Part List					MM & ATD
PC/1.16	Part List					MM & ATD

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY MM & ATD	DATE 2017-09-01
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DRAWING TITLE Accelerator ODH Detection System
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Enclosures

PC/1.17	Part List					MM & ATD
PC/1.18	Part List					MM & ATD
PC/1.19	Part List					MM & ATD
PC/1.20	Part List					MM & ATD
PC/1.21	Part List					MM & ATD
PC/1.22	Part List					MM & ATD
PC/1.23	Part List					MM & ATD
PC/1.24	Part List					MM & ATD
PC/1.25	Part List					MM & ATD
PC/1.26	Part List					MM & ATD
PC/1.27	Part List					MM & ATD
PC/1.28	Part List					MM & ATD
PC/1.29	Part List					MM & ATD
PC/1.30	Part List					MM & ATD
PC/1.31	Part List					MM & ATD
PC/1.32	Part List					MM & ATD

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PLC rack

FS/1	Power Layout (Main Power)			2	2017-09-01	MM & ATD
FS/2	Power Layout (UPS & Battery)			2	2017-09-01	MM & ATD
FS/3	Power Layout (PLC Modules)			2	2017-09-01	MM & ATD
FS/4	Power Layout (PLC Modules)			2	2017-09-01	MM & ATD
FS/5	Power Layout (HMI)			2	2017-09-01	MM & ATD

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



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Preliminary	A3	1	2	
SHEET	=ESS.ACC.F02&AB/1.4			
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PLC rack

FS/6	Power Layout (RSL+ACS)		2	2017-09-01	MM & ATD
FS/7	PLC DI Module (Reserve)		2	2017-09-01	MM & ATD
FS/8	PLC DI Module (Reserve)		2	2017-09-01	MM & ATD
FS/9	PLC DI Module (Reserve)		2	2017-09-01	MM & ATD
FS/10	PLC DI Module (Reserve)		2	2017-09-01	MM & ATD
FS/11	PLC DI Module (Reserve)		2	2017-09-01	MM & ATD
FS/12	PLC DI Module (Reserve)		2	2017-09-01	MM & ATD
FS/13	PLC DI Module (Reserve)		2	2017-09-01	MM & ATD
FS/14	PLC DI Module (Reserve)		2	2017-09-01	MM & ATD
FS/15	PLC DI Module (Reserve)		2	2017-09-01	MM & ATD
FS/16	PLC DI Module (Reserve)		2	2017-09-01	MM & ATD
FS/17	PLC AI Module (Reserve)		2	2017-09-01	MM & ATD
FS/18	PLC AI Module (Reserve)		2	2017-09-01	MM & ATD
FS/19	PLC AI Module (Reserve)		2	2017-09-01	MM & ATD
FS/20	PLC AI Module (Reserve)		2	2017-09-01	MM & ATD
FS/21	PLC AI Module (Reserve)		2	2017-09-01	MM & ATD
FS/22	PLC AI Module (Reserve)		2	2017-09-01	MM & ATD
FS/23	PLC AI Module (Reserve)		2	2017-09-01	MM & ATD
FS/24	PLC AI Module (Reserve)		2	2017-09-01	MM & ATD
FS/25	PLC DQ Module (Reserve)		2	2017-09-01	MM & ATD
FS/26	PLC DQ Module (Reserve)		2	2017-09-01	MM & ATD
FS/27	PLC DQ Module (Reserve)		2	2017-09-01	MM & ATD
FS/28	PLC DQ Module (Reserve)		2	2017-09-01	MM & ATD
FS/29	PLC DQ Module (Reserve)		2	2017-09-01	MM & ATD

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				MM & ATD	2017-09-01	Accelerator ODH Detection System	ESS-0089356
				CHECKED BY MM		PAGE TYPE Table of contents	LIFECYCLE LABEL Preliminary
				APPROVED BY SLB	DATE 01-Sep-17	FUNCTION	PAGE SIZE A3
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	DESIGN SITE ESS			PAGE SCALE 1
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.				REV 2
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PLC rack

FS/30	PLC DQ Module (Reserve)		2	2017-09-01	MM & ATD
FS/31	24VDC distribution block		2	2017-09-01	MM & ATD
FS/32	0VDC distribution block		2	2017-09-01	MM & ATD
LU/1	Panel layout		2	2017-09-01	MM & ATD
LU/2	Enclosure legend : =ESS.ACC.F02.K01.U1+-PH1 - =ESS.ACC.F02.K01.U1+-FC2		2	2017-09-01	MM & ATD
LU/2.1	Enclosure legend : =ESS.ACC.F02.K01.U1+-FB1 - =ESS.ACC.F02.K01.U1+-XD11		2	2017-09-01	MM & ATD

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RIO Rack1

FS/1	Power Layout (Main Power)		2	2017-09-01	MM & ATD
FS/2	Power Layout (UPS & Battery)		2	2017-09-01	MM & ATD
FS/3	Power Layout (PLC Modules)		2	2017-09-01	MM & ATD
FS/4	Power Layout (PLC Modules)		2	2017-09-01	MM & ATD
FS/5	Power Layout (RSL+ACS)		2	2017-09-01	MM & ATD
FS/6	PLC DI Module (O2iM 1-2)		2	2017-09-01	MM & ATD
FS/7	PLC DI Module (O2iM 2-3)		2	2017-09-01	MM & ATD
FS/8	PLC DI Module (O2iM 4-5)		2	2017-09-01	MM & ATD
FS/9	PLC DI Module (O2iM 5-6)		2	2017-09-01	MM & ATD
FS/10	PLC DI Module (O2iM 7-8)		2	2017-09-01	MM & ATD
FS/11	PLC DI Module (O2iM 8-9)		2	2017-09-01	MM & ATD
FS/12	PLC DI Module (O2iM 10-11)		2	2017-09-01	MM & ATD
FS/13	PLC DI Module (O2iM 11-12)		2	2017-09-01	MM & ATD
FS/14	PLC DI Module (Reserve)		2	2017-09-01	MM & ATD
FS/15	PLC DI Module (Reserve)		2	2017-09-01	MM & ATD

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2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	DESIGN SITE ESS			PAGE SCALE 1
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.				REV 2
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RIO Rack1

FS/16	PLC AI Module (O2iM 1-2)		2	2017-09-01	MM & ATD
FS/17	PLC AI Module (O2iM 3-4)		2	2017-09-01	MM & ATD
FS/18	PLC AI Module (O2iM 5-6)		2	2017-09-01	MM & ATD
FS/19	PLC AI Module (O2iM 7-8)		2	2017-09-01	MM & ATD
FS/20	PLC AI Module (O2iM 9-10)		2	2017-09-01	MM & ATD
FS/21	PLC AI Module (O2iM 11-12)		2	2017-09-01	MM & ATD
FS/22	PLC AI Module (Reserve)		2	2017-09-01	MM & ATD
FS/23	PLC AI Module (Reserve)		2	2017-09-01	MM & ATD
FS/24	PLC DQ Module (O2iM 1-8)		2	2017-09-01	MM & ATD
FS/25	PLC DQ Module (O2iM 9-12)		2	2017-09-01	MM & ATD
FS/26	PLC DQ Module (RSL & ACS)		2	2017-09-01	MM & ATD
FS/27	PLC DQ Module (RSL & ACS)		2	2017-09-01	MM & ATD
FS/28	PLC DQ Module (Reserve)		2	2017-09-01	MM & ATD
FS/29	PLC DQ Module (Reserve)		2	2017-09-01	MM & ATD
FS/30	24VDC Distribution Block		2	2017-09-01	MM & ATD
FS/31	0VDC Distribution Block		2	2017-09-01	MM & ATD
LU/1	Panel layout		2	2017-09-01	MM & ATD
LU/2	Enclosure legend : =ESS.ACC.F02.K01.U2+-TA1 - =ESS.ACC.F02.K01.U2+-K32		2	2017-09-01	MM & ATD
LU/2.1	Enclosure legend : =ESS.ACC.F02.K01.U2+-K41 - =ESS.ACC.F02.K01.U2+-XD12		2	2017-09-01	MM & ATD

=ESS.ACC.F02.K01.U3

RIO Rack2

FS/1	Power Layout (Main Power)		2	2017-09-01	MM & ATD
FS/2	Power Layout (UPS & Battery)		2	2017-09-01	MM & ATD

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

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RIO Rack2

FS/3		Power Layout (PLC Modules)		2	2017-09-01	MM & ATD
FS/4		Power Layout (PLC Modules)		2	2017-09-01	MM & ATD
FS/5		Power Layout (RSL+ACS)		2	2017-09-01	MM & ATD
FS/6		PLC DI Module (O2iM 13-14)		2	2017-09-01	MM & ATD
FS/7		PLC DI Module (O2iM 14-15)		2	2017-09-01	MM & ATD
FS/8		PLC DI Module (O2iM 16-17)		2	2017-09-01	MM & ATD
FS/9		PLC DI Module (O2iM 17-18)		2	2017-09-01	MM & ATD
FS/10		PLC DI Module (O2iM 19-20)		2	2017-09-01	MM & ATD
FS/11		PLC DI Module (O2iM 20-21)		2	2017-09-01	MM & ATD
FS/12		PLC DI Module (O2iM 22)		2	2017-09-01	MM & ATD
FS/13		PLC DI Module (Reserve)		2	2017-09-01	MM & ATD
FS/14		PLC DI Module (Reserve)		2	2017-09-01	MM & ATD
FS/15		PLC DI Module (Reserve)		2	2017-09-01	MM & ATD
FS/16		PLC AI Module (O2iM 13-14)		2	2017-09-01	MM & ATD
FS/17		PLC AI Module (O2iM 15-16)		2	2017-09-01	MM & ATD
FS/18		PLC AI Module (O2iM 17-18)		2	2017-09-01	MM & ATD
FS/19		PLC AI Module (O2iM 19-20)		2	2017-09-01	MM & ATD
FS/20		PLC AI Module (O2iM 21-22)		2	2017-09-01	MM & ATD
FS/21		PLC AI Module (Reserve)		2	2017-09-01	MM & ATD
FS/22		PLC AI Module (Reserve)		2	2017-09-01	MM & ATD
FS/23		PLC AI Module (Reserve)		2	2017-09-01	MM & ATD
FS/24		PLC DQ Module (O2iM 13-20)		2	2017-09-01	MM & ATD
FS/25		PLC DQ Module (O2iM 21-22)		2	2017-09-01	MM & ATD
FS/26		PLC DQ Module (RSL & ACS)		2	2017-09-01	MM & ATD

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				MM & ATD	2017-09-01	Accelerator ODH Detection System	ESS-0089356
				CHECKED BY MM		PAGE TYPE Table of contents	LIFECYCLE LABEL Preliminary
				APPROVED BY SLB	DATE 01-Sep-17	FUNCTION	PAGE SIZE A3
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	DESIGN SITE ESS			PAGE SCALE 1
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.				REV 2
							SHEET =ESS.ACC.F02&AB/1.8
							NEXT 1.9



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=ESS.ACC.F02.K01.U3 RIO Rack2	FS/27	PLC DQ Module (RSL & ACS)		2	2017-09-01	MM & ATD
	FS/28	PLC DQ Module (Reserve)		2	2017-09-01	MM & ATD
	FS/29	PLC DQ Module (Reserve)		2	2017-09-01	MM & ATD
	FS/30	24VDC Distribution Block		2	2017-09-01	MM & ATD
	FS/31	0VDC Distribution Block		2	2017-09-01	MM & ATD
	LU/1	Panel layout		2	2017-09-01	MM & ATD
	LU/2	Enclosure legend : =ESS.ACC.F02.K01.U3+-TA1 - =ESS.ACC.F02.K01.U3+-K32		2	2017-09-01	MM & ATD
	LU/2.1	Enclosure legend : =ESS.ACC.F02.K01.U3+-K41 - =ESS.ACC.F02.K01.U3+-XD12		2	2017-09-01	MM & ATD

=ESS.ACC.F02.P01 Alarm Systems	FS/1	ACCP Hall RSL+ACS		2	2017-09-01	MM & ATD
	FS/2	TMCP Hall RSL+ACS		2	2017-09-01	MM & ATD
	FS/3	HPGS Room RSL+ACS		2	2017-09-01	MM & ATD
	FS/4	HCB Outside RSL+ACS		2	2017-09-01	MM & ATD
	FS/5	CXH RSL+ACS (1)		2	2017-09-01	MM & ATD
	FS/6	CXH RSL+ACS (2)		2	2017-09-01	MM & ATD
	FS/7	CXB Outside RSL+ACS		2	2017-09-01	MM & ATD
	MB/1	Cable diagram		2	2017-09-01	MM & ATD
	MB/2	Cable diagram		2	2017-09-01	MM & ATD
	MB/3	Cable diagram		2	2017-09-01	MM & ATD
	MB/4	Cable diagram		2	2017-09-01	MM & ATD
	MB/5	Cable diagram		2	2017-09-01	MM & ATD
	MB/6	Cable diagram		2	2017-09-01	MM & ATD

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)
				MM & ATD	2017-09-01	Accelerator ODH Detection System	ESS-0089356
				CHECKED BY MM		PAGE TYPE Table of contents	LIFECYCLE LABEL Preliminary
				APPROVED BY SLB	DATE 01-Sep-17	FUNCTION	PAGE SIZE A3
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	DESIGN SITE ESS			PAGE SCALE 1
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.				REV 2
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Alarm Systems

MB/7	Cable diagram		2	2017-09-01	MM & ATD
MB/8	Cable diagram		2	2017-09-01	MM & ATD
MB/9	Cable diagram		2	2017-09-01	MM & ATD
MB/10	Cable diagram		2	2017-09-01	MM & ATD
MB/11	Cable diagram		2	2017-09-01	MM & ATD
MB/12	Cable diagram		2	2017-09-01	MM & ATD
MB/13	Cable diagram		2	2017-09-01	MM & ATD
MB/14	Cable diagram		2	2017-09-01	MM & ATD
MB/15	Cable diagram		2	2017-09-01	MM & ATD
MB/16	Cable diagram		2	2017-09-01	MM & ATD
MB/17	Cable diagram		2	2017-09-01	MM & ATD
MB/18	Cable diagram		2	2017-09-01	MM & ATD
MB/19	Cable diagram		2	2017-09-01	MM & ATD
MB/20	Cable diagram		2	2017-09-01	MM & ATD
MB/21	Cable diagram		2	2017-09-01	MM & ATD
MB/22	Cable diagram		2	2017-09-01	MM & ATD
MB/23	Cable diagram		2	2017-09-01	MM & ATD
MB/24	Cable diagram		2	2017-09-01	MM & ATD
MB/25	Cable diagram		2	2017-09-01	MM & ATD
MB/26	Cable diagram		2	2017-09-01	MM & ATD
MB/27	Cable diagram		2	2017-09-01	MM & ATD
MB/28	Cable diagram		2	2017-09-01	MM & ATD
MB/29	Cable diagram		2	2017-09-01	MM & ATD
MB/30	Cable diagram		2	2017-09-01	MM & ATD

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2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	MM & ATD	2017-09-01	Accelerator ODH Detection System	ESS-0089356
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	MM	01-Sep-17	Table of contents	ESS-0089356



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Preliminary	A3	1	2

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Alarm Systems

MB/31	Cable diagram		2	2017-09-01	MM & ATD
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MB/33	Cable diagram		2	2017-09-01	MM & ATD
MB/34	Cable diagram		2	2017-09-01	MM & ATD
MB/35	Cable diagram		2	2017-09-01	MM & ATD
MB/36	Cable diagram		2	2017-09-01	MM & ATD
MB/37	Cable diagram		2	2017-09-01	MM & ATD
MB/38	Cable diagram		2	2017-09-01	MM & ATD
MB/39	Cable diagram		2	2017-09-01	MM & ATD
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MB/43	Cable diagram		2	2017-09-01	MM & ATD
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MB/45	Cable diagram		2	2017-09-01	MM & ATD
MB/46	Cable diagram		2	2017-09-01	MM & ATD
MB/47	Cable diagram		2	2017-09-01	MM & ATD
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MB/49	Cable diagram		2	2017-09-01	MM & ATD
MB/50	Cable diagram		2	2017-09-01	MM & ATD
MB/51	Cable diagram		2	2017-09-01	MM & ATD
MB/52	Cable diagram		2	2017-09-01	MM & ATD
MB/53	Cable diagram		2	2017-09-01	MM & ATD
MB/54	Cable diagram		2	2017-09-01	MM & ATD

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2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	MM & ATD	2017-09-01	Accelerator ODH Detection System	ESS-0089356
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	MM	01-Sep-17	Table of contents	ESS-0089356



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MB/55	Cable diagram		2	2017-09-01	MM & ATD
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MB/57	Cable diagram		2	2017-09-01	MM & ATD
MB/58	Cable diagram		2	2017-09-01	MM & ATD
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MB/63	Cable diagram		2	2017-09-01	MM & ATD
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MB/67	Cable diagram		2	2017-09-01	MM & ATD
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MB/73	Cable diagram		2	2017-09-01	MM & ATD
MB/74	Cable diagram		2	2017-09-01	MM & ATD
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MB/78	Cable diagram		2	2017-09-01	MM & ATD

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2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Table of contents
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DRAWING NUMBER (Doc)	ESS-0089356			
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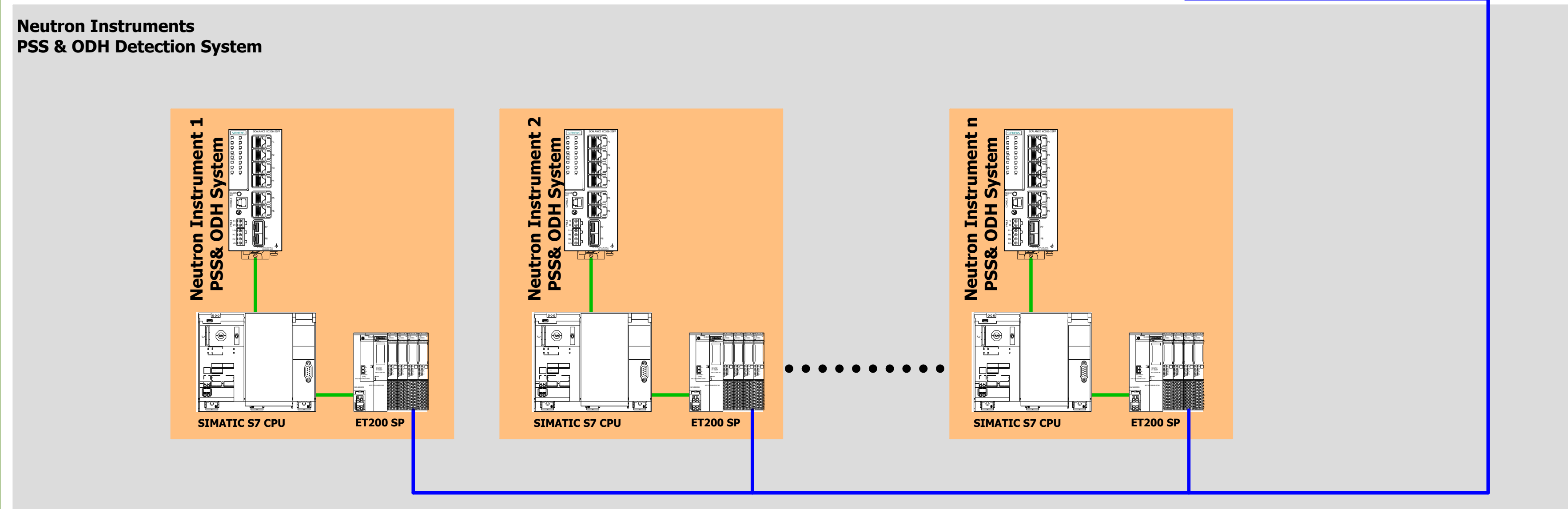
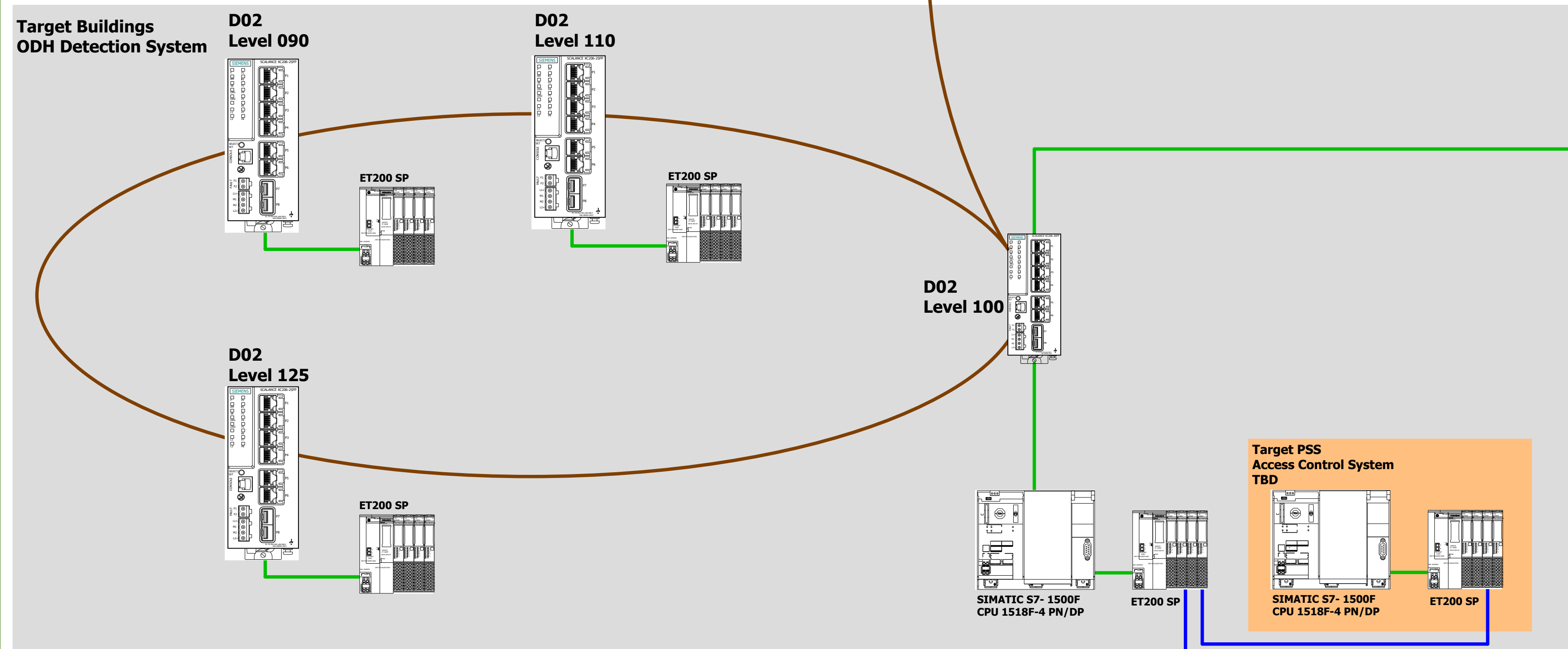
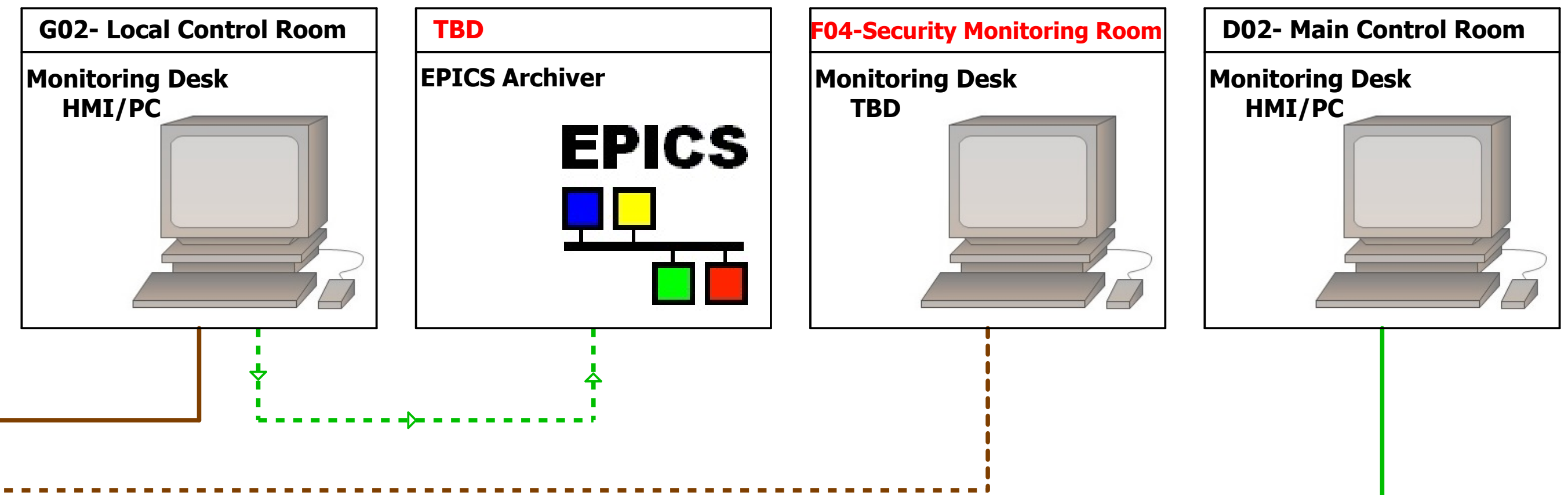
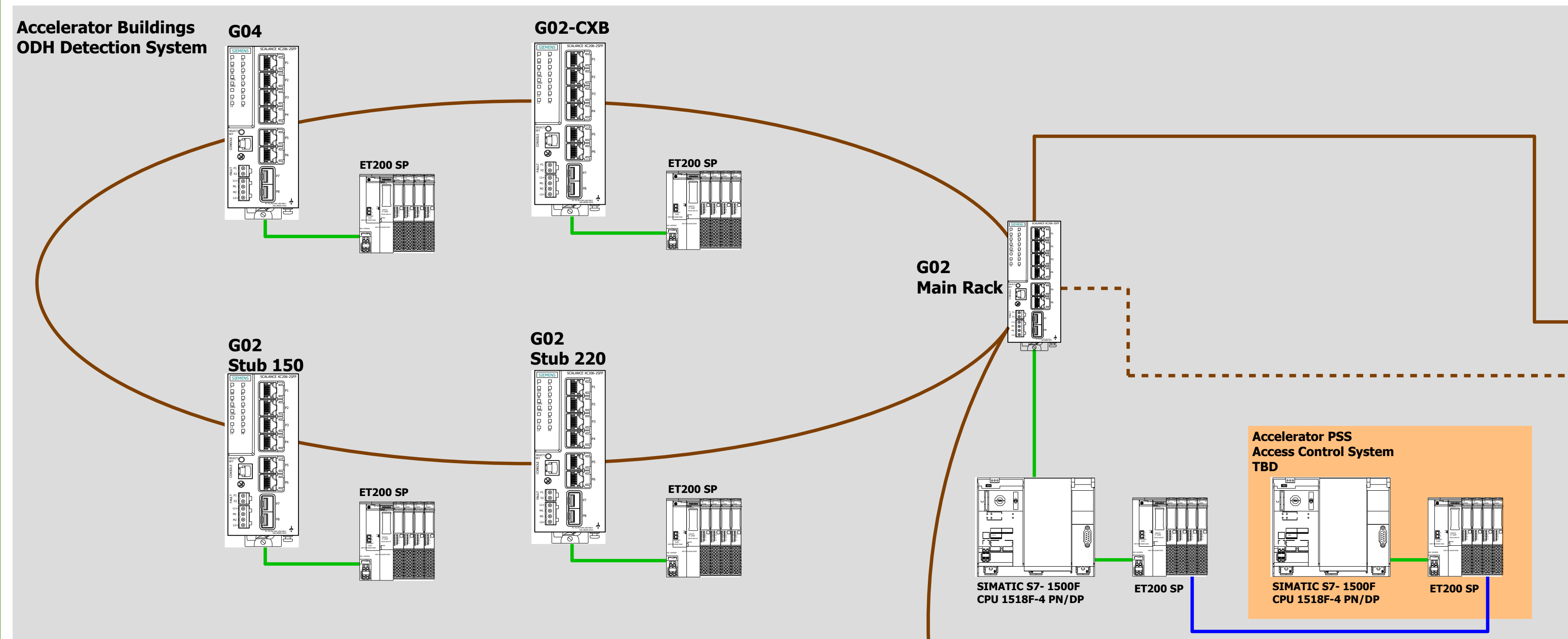
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Alarm Systems

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MB/83	Cable diagram		2	2017-09-01	MM & ATD
MB/84	Cable diagram		2	2017-09-01	MM & ATD
MB/85	Cable diagram		2	2017-09-01	MM & ATD
PC/1	Part List		2	2017-09-01	MM & ATD
PC/1.1	Part List		2	2017-09-01	MM & ATD
PC/1.2	Part List		2	2017-09-01	MM & ATD
PC/1.3	Part List		2	2017-09-01	MM & ATD
PC/1.4	Part List		2	2017-09-01	MM & ATD
PC/1.5	Part List		2	2017-09-01	MM & ATD
PC/1.6	Part List		2	2017-09-01	MM & ATD
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PC/1.9	Part List		2	2017-09-01	MM & ATD
PC/1.10	Part List		2	2017-09-01	MM & ATD
PC/1.11	Part List		2	2017-09-01	MM & ATD
PC/1.12	Part List		2	2017-09-01	MM & ATD

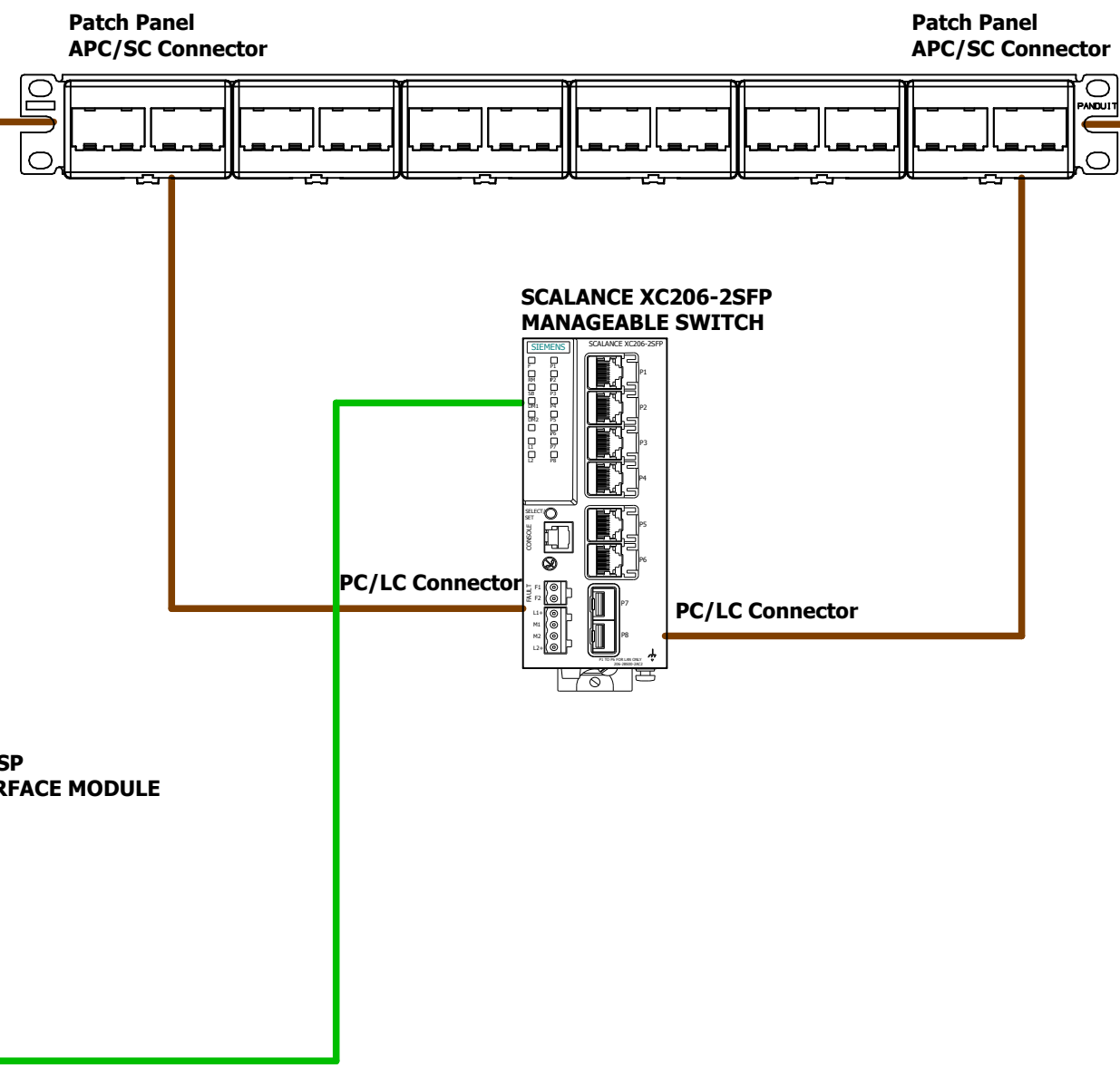
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				CHECKED BY MM		PAGE TYPE Table of contents	LIFECYCLE LABEL Preliminary
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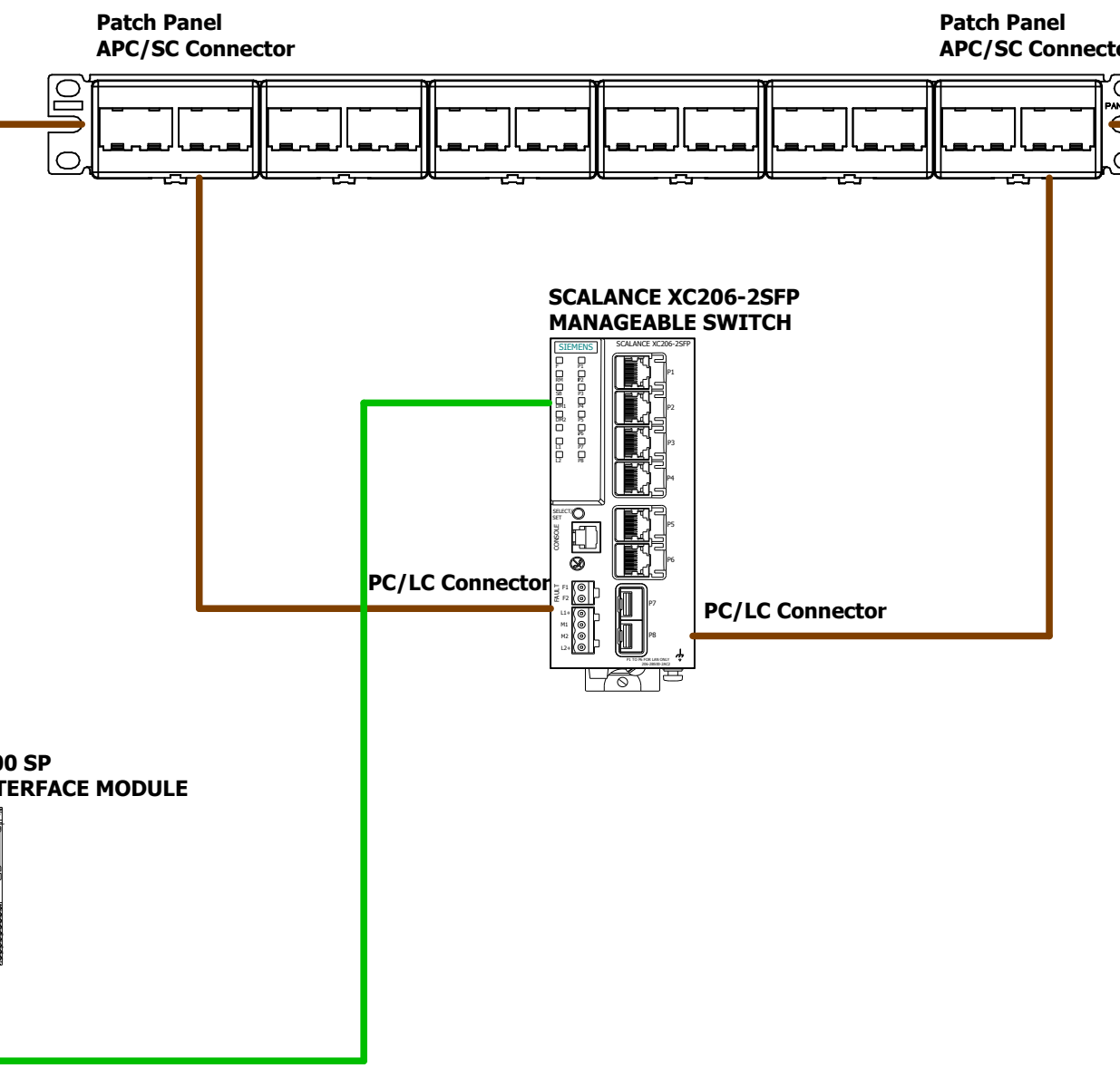


Legend	
	Ethernet Cable (dedicated to ODH System)
	Fiber Optic Cable (dedicated to ODH System)
	Hardwired Signal Cable
	Fiber Optic Cable (shared with ICS network? TBD)

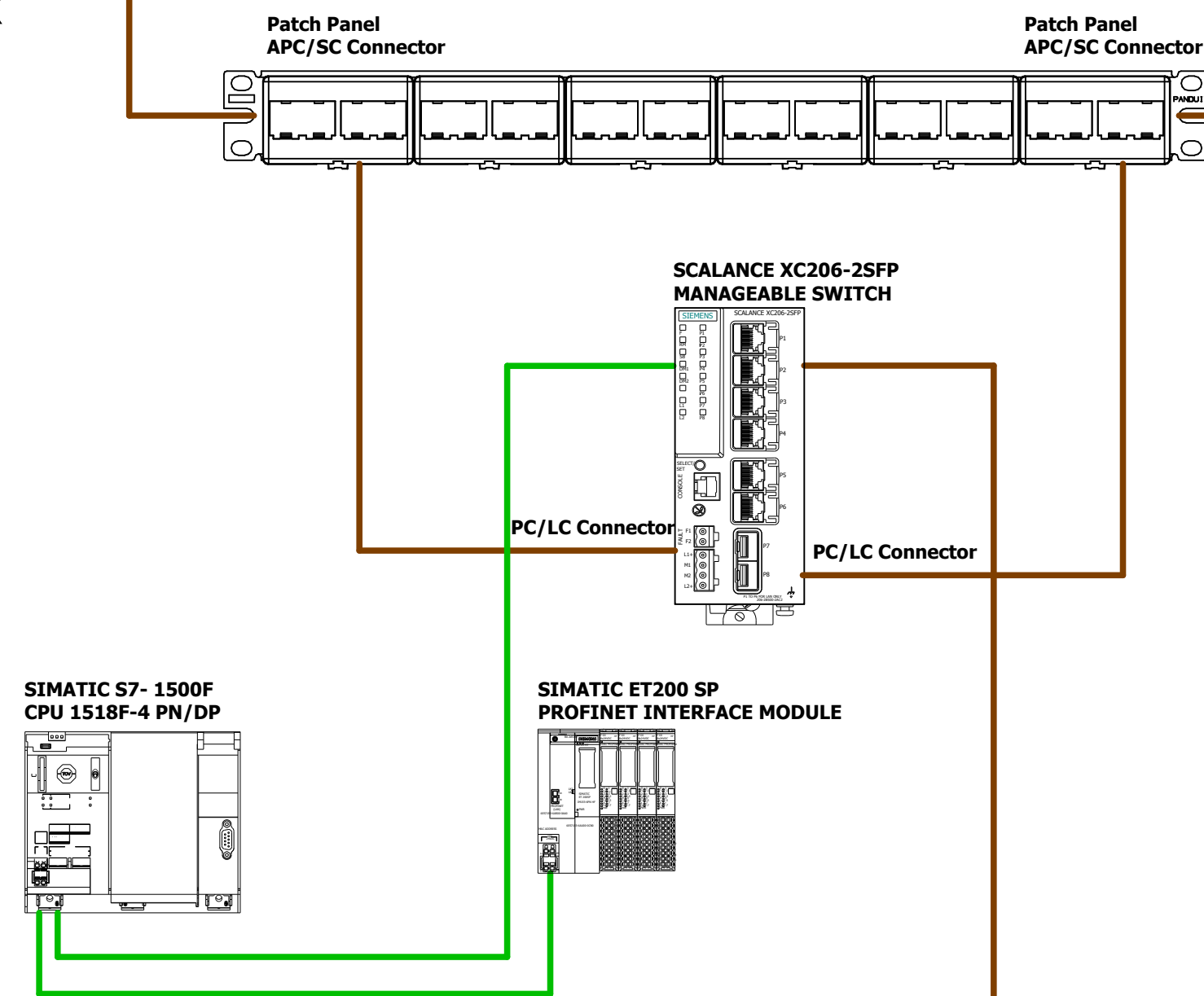
**G04
ODH Rack**



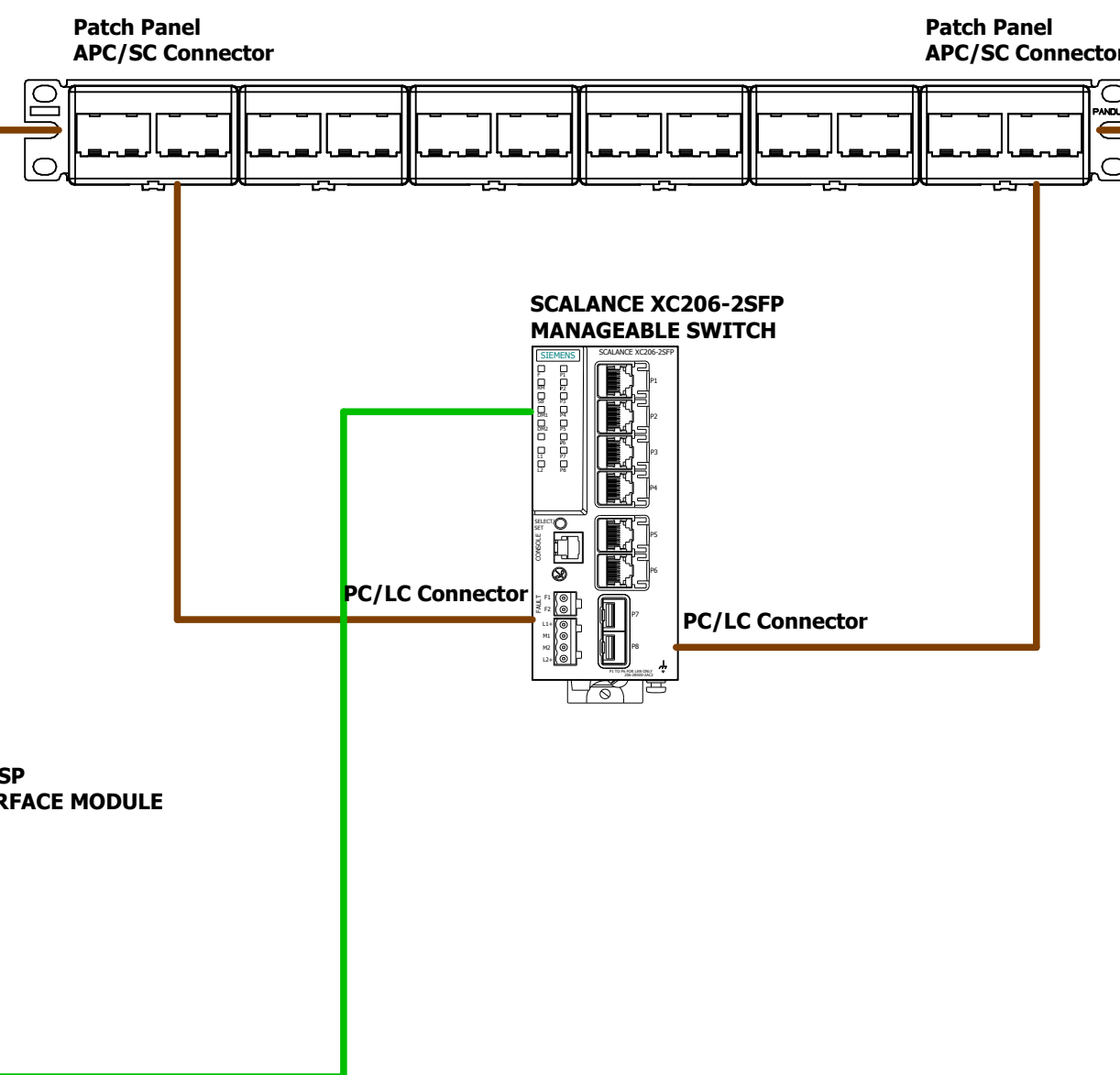
**CXB & CTL
ODH Rack**



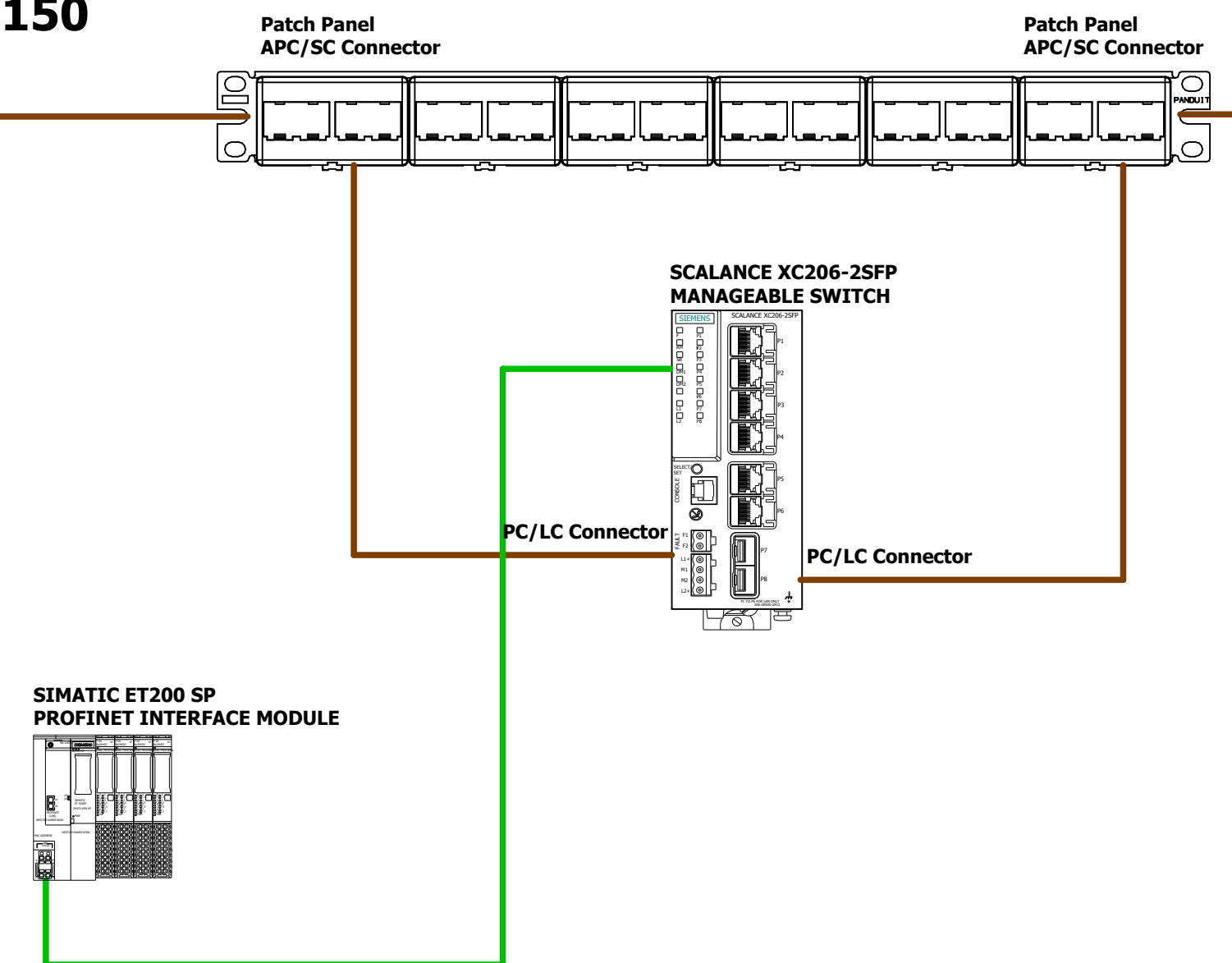
**G02
Main ODH
Rack**



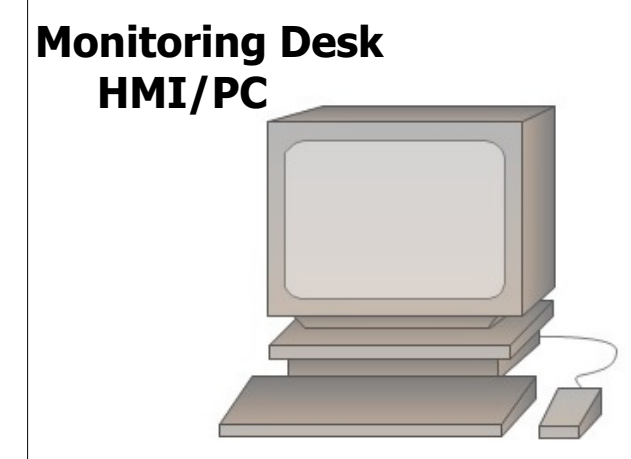
**G02
ODH Rack
Stub 220**



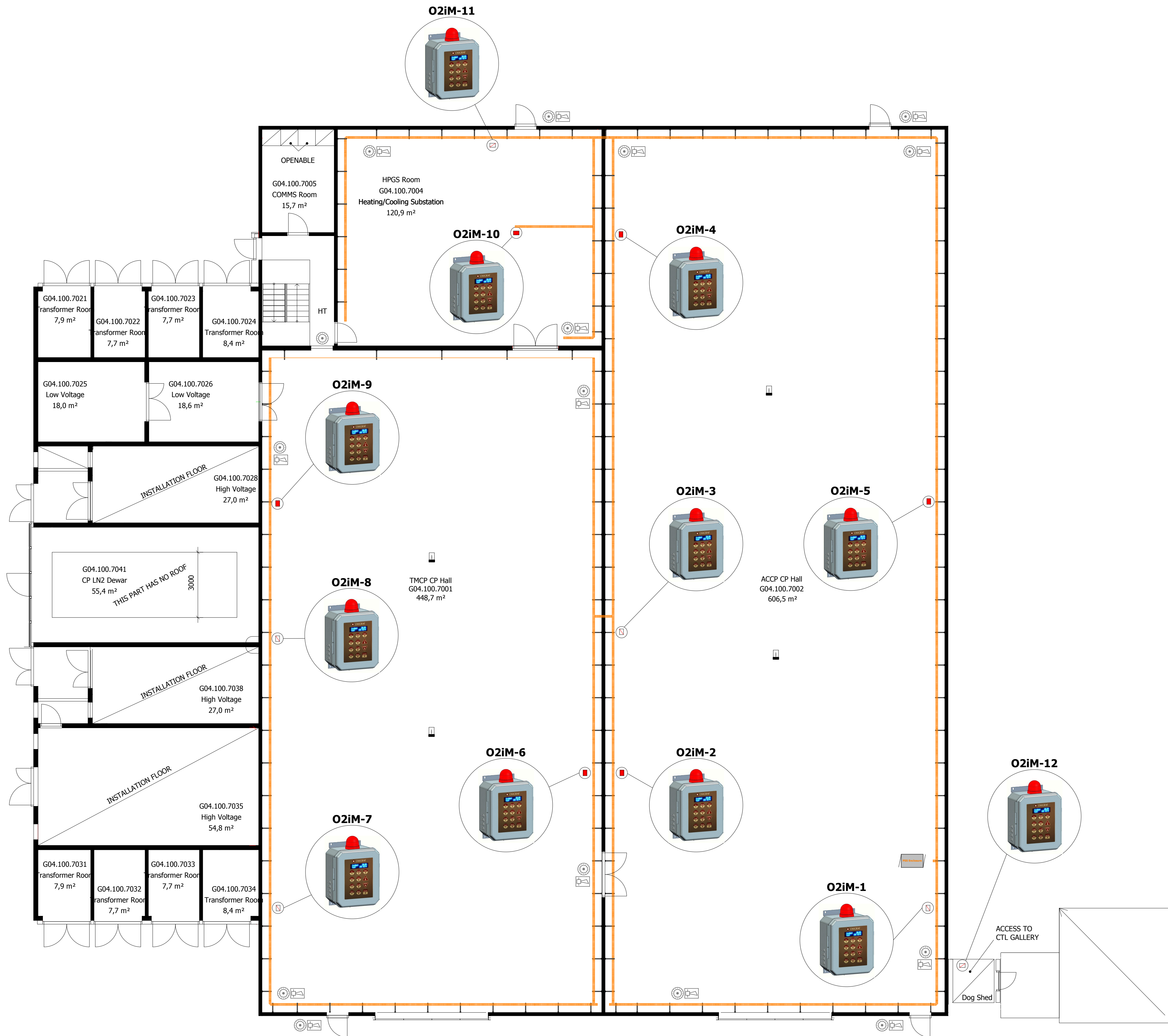
**G02
ODH Rack
Stub 150**



G02- Local Control Room



Legend	
	Ethernet Cable (dedicated to ODH System)
	Fiber Optic Cable (dedicated to ODH System)



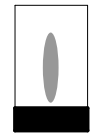
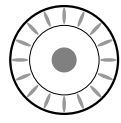
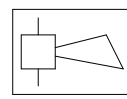

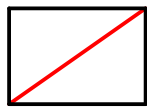

Legend	
	Halogen Red Strobe Light
	Xenon Red Beacon Light
	Acoustic Siren, >100 db
	Oxigraf 4-port O2iM Oxygen Deficiency Monitor (installed at height 1.7 m FFL)
	Oxigraf 1-port O2iM Oxygen Deficiency Monitor (installed at height 1.7 m FFL)
	ODH Monitoring System Distributed I/O Enclosure (double-door, W: 600 mm, D: 1000 mm, H: 2000 mm)

G04-Field Devices-ODH Monitors

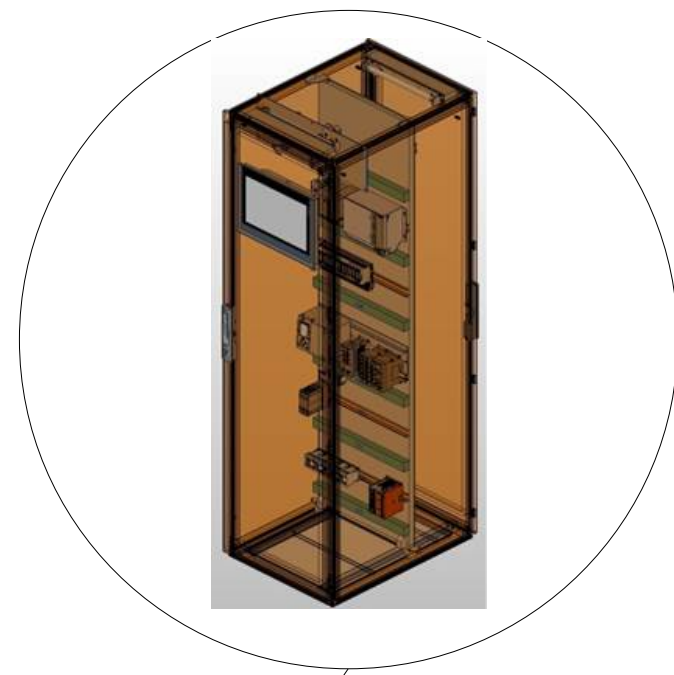


Legend	
	Halogen Red Strobe Light
	Xenon Red Beacon Light
	Acoustic Siren, >100 db
	Oxigraf 4-port O2iM Oxygen Deficiency Monitor (installed at height 1.7 m FFL)
	Oxigraf 1-port O2iM Oxygen Deficiency Monitor (installed at height 1.7 m FFL)
	ODH Monitoring System Distributed I/O Enclosure (double-door, W: 600 mm, D: 1000 mm, H: 2000 mm)

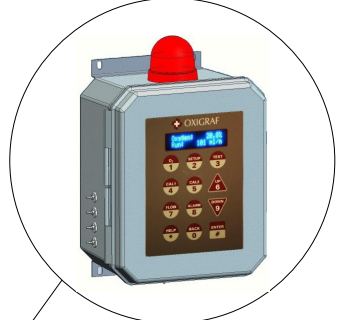
G04-Field Devices-Lights & Sounders

Legend	
	Halogen Red Strobe Light
	Xenon Red Beacon Light
	Acoustic Siren, > 100 db
	Oxigraf 4-port O2iM Oxygen Deficiency Monitor (installed at height 1.7 m FFL)
	Oxigraf 1-port O2iM Oxygen Deficiency Monitor (installed at height 1.7 m FFL)
	ODH Monitoring System Distributed I/O Enclosure (double-door, W: 600 mm, D: 1000 mm, H: 2000 mm)

CXB-CXH:ODH-RIO-2

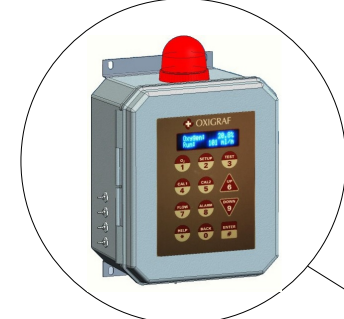


O2iM-13



Coldbox Hall
G02.100.2002

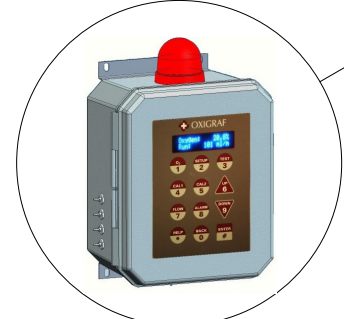
O2iM-17



O2iM-16



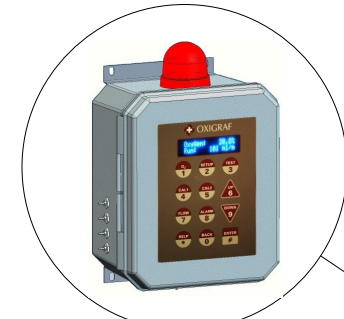
O2iM-19



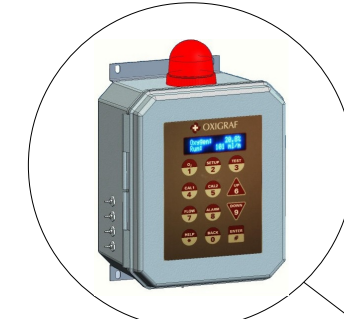
O2iM-18




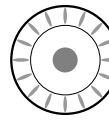
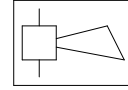

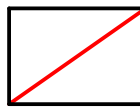
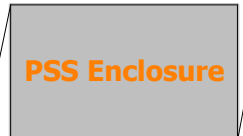
O2iM-15



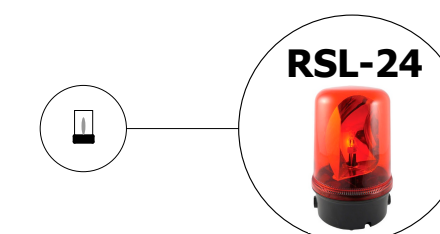
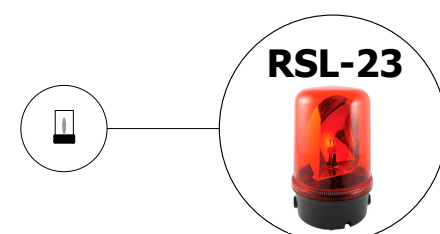
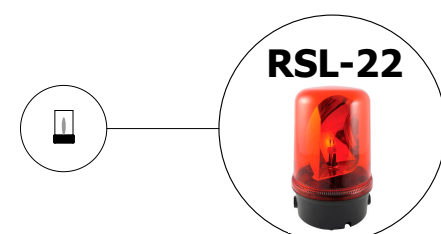
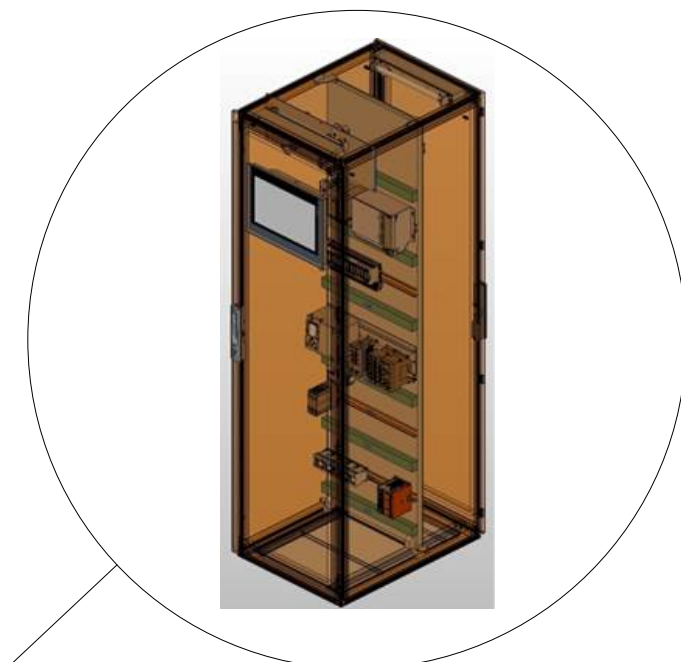
O2iM-14



CXB-Field Devices-ODH Monitors

Legend	
	Halogen Red Strobe Light
	Xenon Red Beacon Light
	Acoustic Siren, >100 db
	Oxigraf 4-port O2IM Oxygen Deficiency Monitor (installed at height 1.7 m FFL)
	Oxigraf 1-port O2IM Oxygen Deficiency Monitor (installed at height 1.7 m FFL)
	ODH Monitoring System Distributed I/O Enclosure (double-door, W: 600 mm, D: 1000 mm, H: 2000 mm)

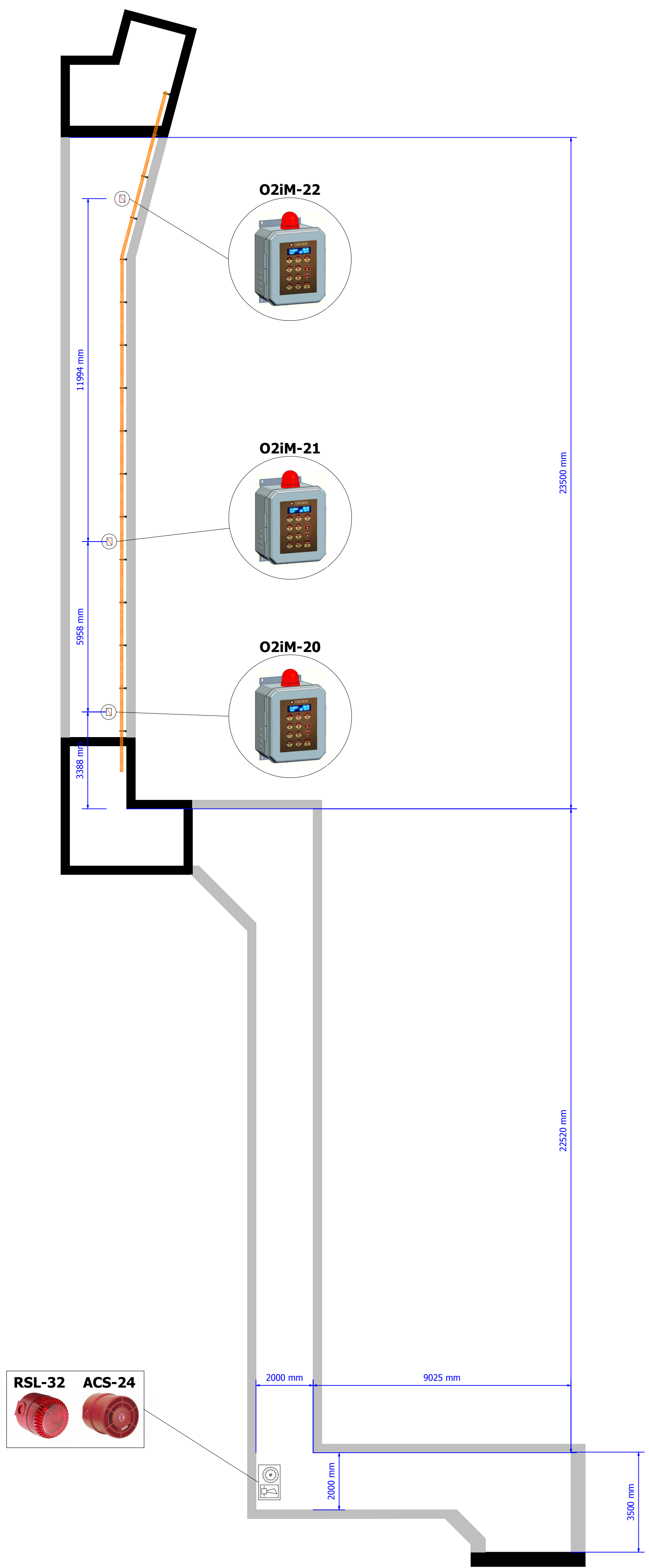
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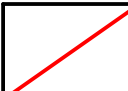
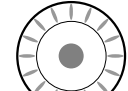
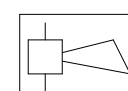


Coldbox Hall
G02.100.2002


CXB-Field Devices-Lights & Sounders

CTL confined space
G04.090.7002



Legend	
	Oxigraf 1-port O2iM Oxygen Deficiency Monitor (installed at height 1.7 m FFL)
	Xenon Red Beacon Light
	Acoustic Siren, >100 db

CTL-Field Devices-ODH Monitors


 EUROPEAN SPALLATION SOURCE <small>Documentation production 2017-02-05</small>	DRAWN BY: MM & ATD CHECKED BY: MM APPROVED BY: SLD DESIGN BY: ESS	DATE: 2017-09-01 PAGE DESCRIPTION: Accelerator ODH Detection System FUNCTION: CTLG-Devices-Distribution map	DRAWING TITLE: Accelerator ODH Detection System PROJECT: ESS-0089356 PRELIMINARY: Preliminary SHEET: =ESS.ACC.F02&LD/7 &PD/1	DRAWING CODE: ESS-0089356 PRELIMINARY: Preliminary PAGE SIZE: A1 PAGE SCALE: 100 REV:
	EUROPEAN SPALLATION SOURCE Accelerator ODH Detection System CTLG-Devices-Distribution map Preliminary =ESS.ACC.F02&LD/7 &PD/1			ESS-0089356 A1 100 REV:

Wearing part list

F02_FT004

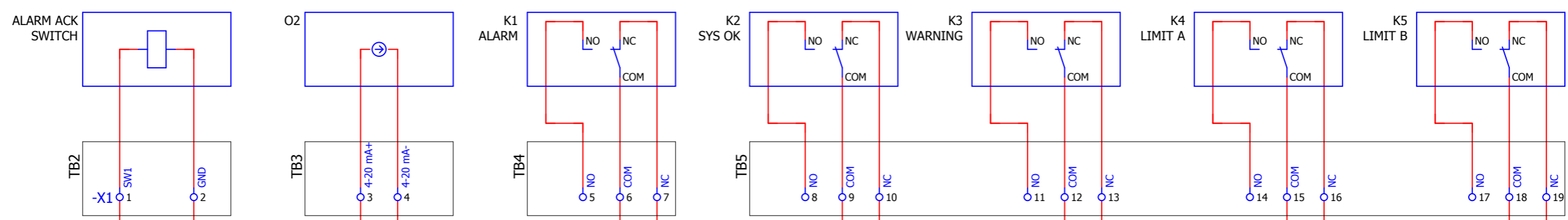
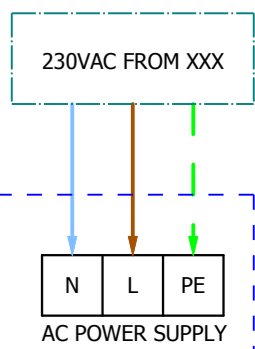
Pos	Designation	Manufacturer	Type number	Part number	Wearing part	Quantity	Unit
						0	
	ISOLATOR 32A DOUBLE POLE	SIE	5TL1232-0	5TL1232-0		10	
	Oxygen Deficiency Detector	OXIGRAF		07-0180		22	
	Solex Beacon, Amber Lens, White Shallow Base,10cd	EATON	531024FULL-0060	531024FULL-0060		24	Piece
	Multi-t.sounder WM 32 tne 9-28VDC	WERMA	14015050	14015050		22	Piece
	Rotating Mirror Beacon	WERMA	88510075	88510075		8	Piece
	UNITRONIC LIHCH (TP) 6x2x0,5	LAPP	UNITRONIC® LIHCH (TP)	LAPP.0038606		22	
	ÖLFLEX® CLASSIC 135 CH 2X1,5	LAPP	ÖLFLEX® CLASSIC 135 CH	LAPP.1123306		54	meter
	ÖLFLEX® CLASSIC 135 CH 4X1,5	LAPP	ÖLFLEX® CLASSIC 135 CH	LAPP.1123310		8	meter
	ÖLFLEX® CLASSIC 135 CH 7G1,5	LAPP	ÖLFLEX® CLASSIC 135 CH	LAPP.1123314		23	meter
	Interface module	PXC	UMK- PVB 2/24/ZFKDS	PXC.2302366		12	Stück
	End bracket	PXC	CLIPFIX 35-5	PXC.3022276		14	Piece
	Ground modular terminal block	PXC	PT 2,5/1P-PE	PXC.3210059		27	Stück
	Ground modular terminal block	PXC	PT 2,5/1P-PE/SIE	PXC.3210060		4	Stück
	Knife disconnect terminal block	PXC	PT 2,5-MT	PXC.3210156		858	Stück
	End cover	PXC	D-PT 2,5-MT	PXC.3211003		17	Stück
	Feed-through terminal block	PXC	PT 4	PXC.3211757		3	Stück
	Feed-through terminal block	PXC	PT 4 BU	PXC.3211760		3	Stück
	Ground modular terminal block	PXC	PT 4-PE	PXC.3211766		3	Stück
	PK Polycarbonate enclosure, WHD: 130x94x57 mm	RIT	PK.9508050	RIT.9508050		31	pc(s).
	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	SIE	3RQ3118-1AB00	SIE.3RQ3118-1AB00		128	
	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	SIE	5SL6101-7	SIE.5SL6101-7		65	
	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	SIE	5SL6504-7	SIE.5SL6504-7		32	
	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 10A	SIE	5SL6510-7	SIE.5SL6510-7		6	
	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 16A	SIE	5SL6516-7	SIE.5SL6516-7		6	
	RCCB TYPE AC 16/2 30MA 2MW	SIE	5SV4311-0	SIE.5SV4311-0		6	
	SCHUKO SOCKET for mounting on support rails	SIE	SIE.5TE6800	SIE.5TE6800		6	pc(s).
	TP1500 COMFORT	SIE	6AV2124-0QC02-0AX0	SIE.6AV2124-0QC02-0AX0		2	
	SITOP PSU100S	SIE	6EP1334-2BA20	SIE.6EP1334-2BA20		6	
	SITOP UPS1600	SIE	6EP4134-3AB00-2AY0	SIE.6EP4134-3AB00-2AY0		6	
	SITOP UPS1100	SIE	6EP4135-0GB00-0AY0	SIE.6EP4135-0GB00-0AY0		6	
	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	SIE	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2B		24	
	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2D	SIE	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0DA0	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2D		6	
	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	SIE	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0+2B		12	
	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0+2D	SIE	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0DA0	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0+2D		6	
	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	SIE	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0BA0	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0+2B		18	
	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2D	SIE	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0DA0	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0+2D		6	
	IM155-6 PN HF / BA 2XRJ45	SIE	6ES7155-6AU00-0CNO / 6ES7193-6AR00-0AA0	SIE.6ES7155-6AU00-0CNO+BA_2XRJ45		6	
	CPU 1518F-4 PN/DP	SIE	6ES7518-4FP00-0AB0	SIE.6ES7518-4FP00-0AB0		2	
	MOUNTING RAIL 482MM (19")	SIE	6ES7590-1AE80-0AA0	SIE.6ES7590-1AE80-0AA0		1	
	SCALANCE XC206-2SFP	SIE	6GK5206-2BS00-2AC2	SIE.6GK5206-2BS00-2AC2		6	
	SFP991-1LD	SIE	6GK5991-1AF00-8AA0	SIE.6GK5991-1AF00-8AA0		12	
	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	SIE	LZS:PT3A5L24	SIE.LZS:PT3A5L24		127	

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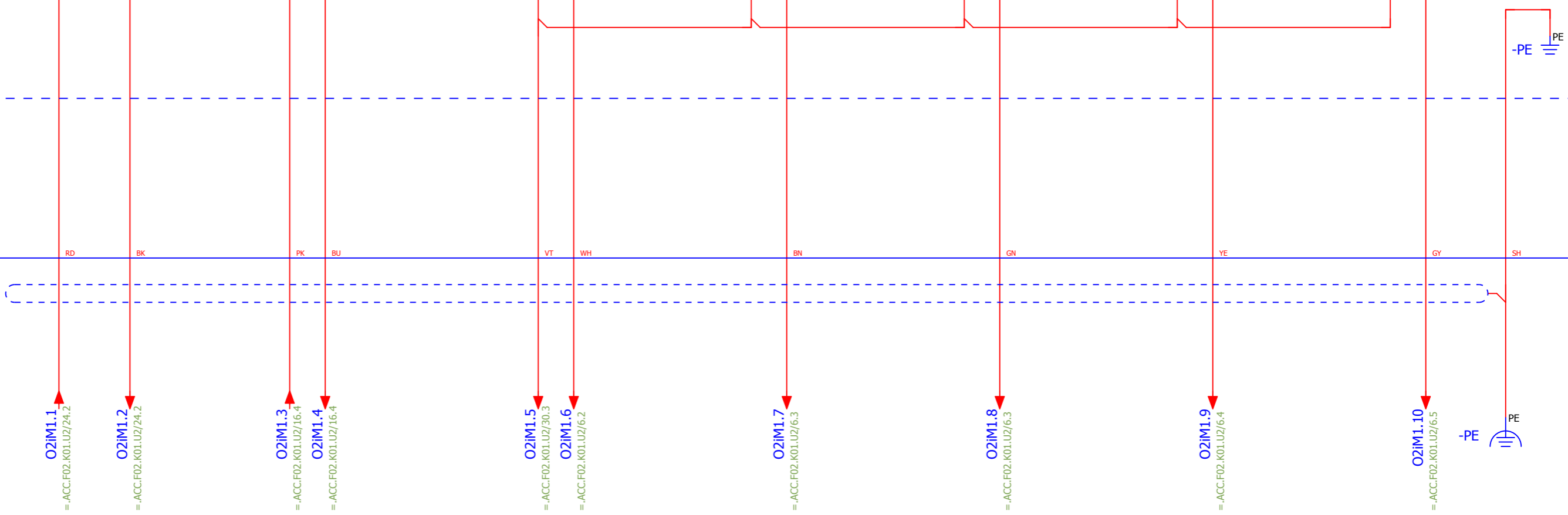
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	<small>CHECKED BY</small> MM	<small>Date</small>	<small>PAGE DESCRIPTION</small> Summarized parts list : - SIE.LZS:PT3A5L24	<small>LIFECYCLE LABEL</small> Preliminary	<small>PAGE SIZE</small> A3	<small>PAGE SCALE</small> 1	<small>REV</small>
	<small>APPROVED BY</small> SLB	<small>Date</small> 01-Sep-17	<small>FUNCTION</small>	<small>SHEET</small> =ESS.ACC.F02&PD/1			
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ACC.F02.B01.BQ1
 HCB-ACH:ODH-O2IM-1
 ESS.G04.100.7002

OXIGRAF - OXYGEN DEFICIENCY MONITOR - BQ1



82C003728
 -WD1
 12x0,5



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



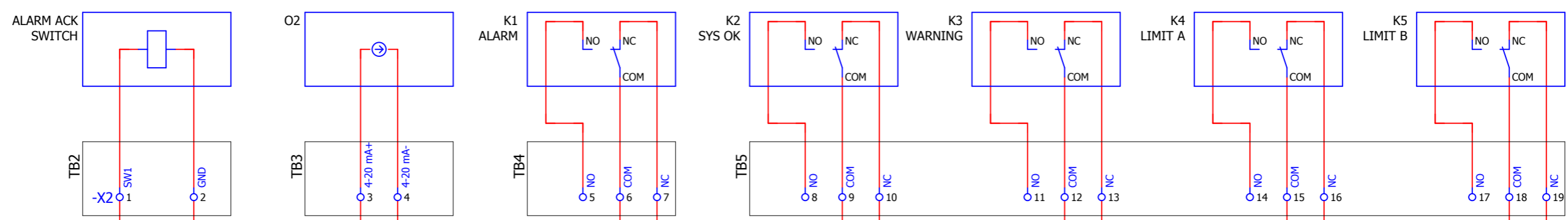
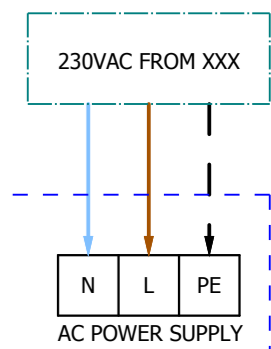
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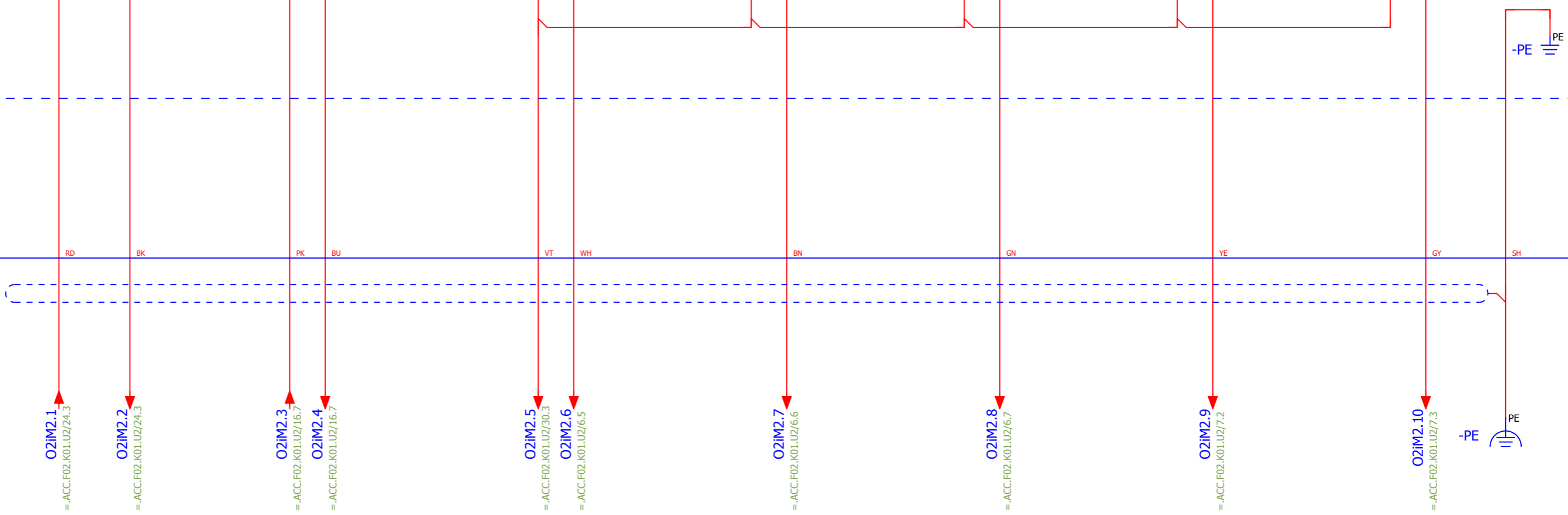
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 HCB-ACH:ODH-O2IM-2
 ESS.G04.100.7002

OXIGRAF - OXYGEN DEFICIENCY MONITOR - BQ2



82C003729
 -WD2
 12x0,5



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



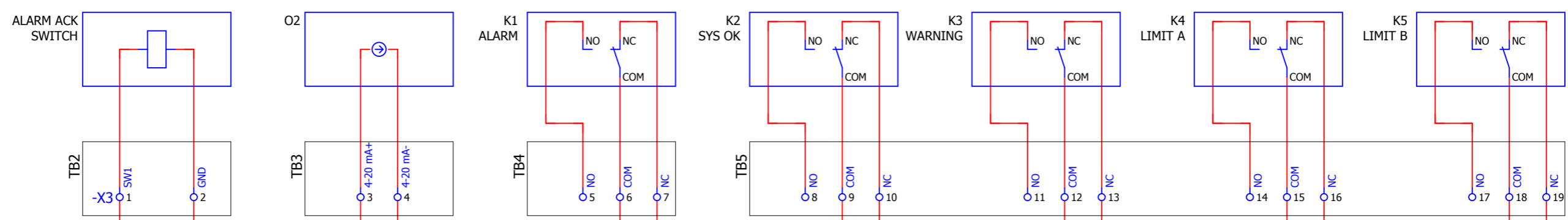
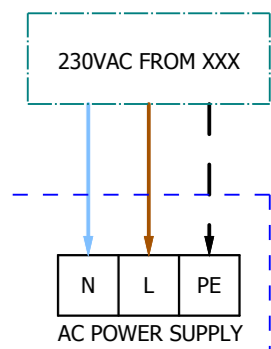
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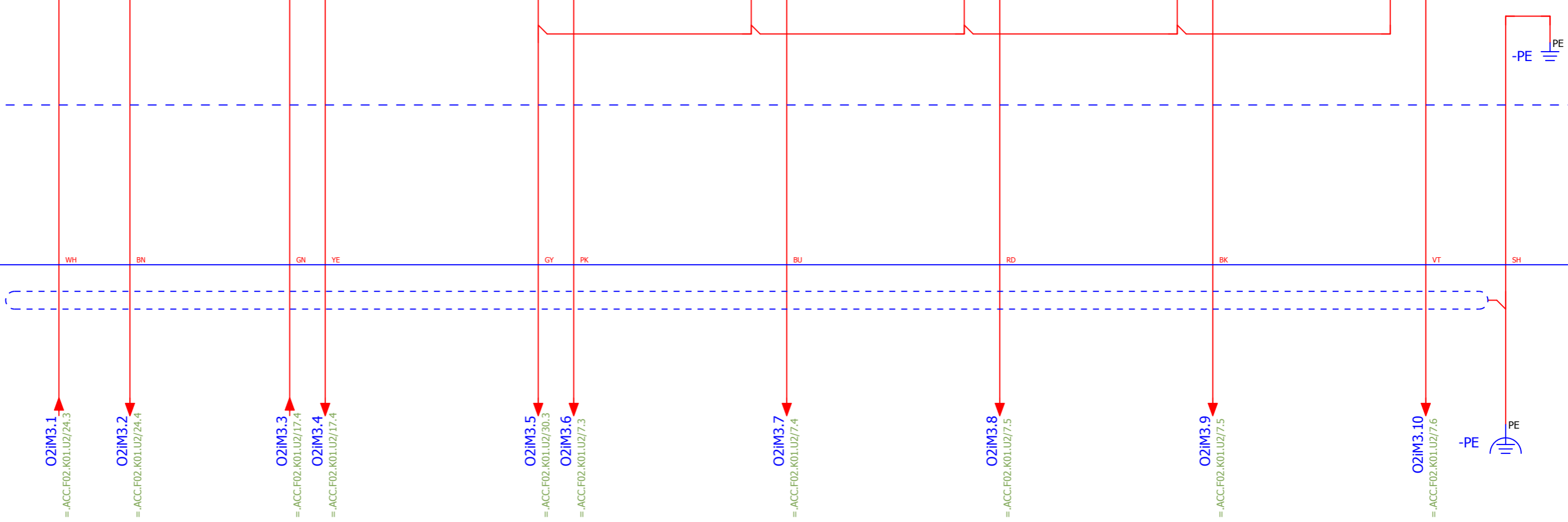
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OXIGRAF - OXYGEN DEFICIENCY MONITOR - BQ3



82C003730
 -WD3
 12x0,5



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



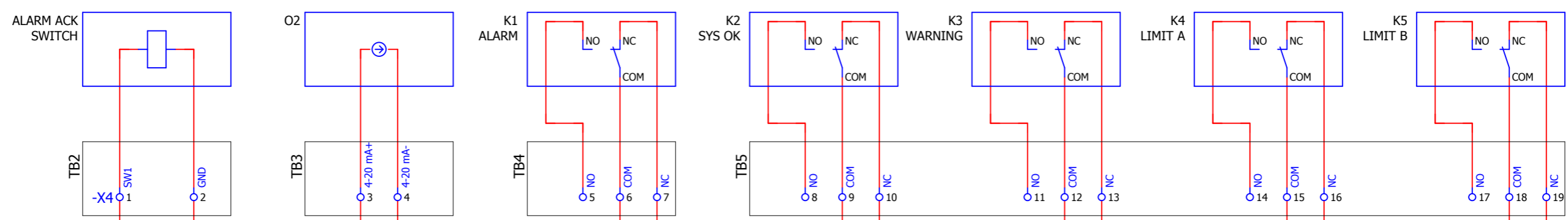
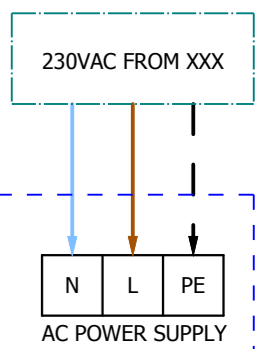
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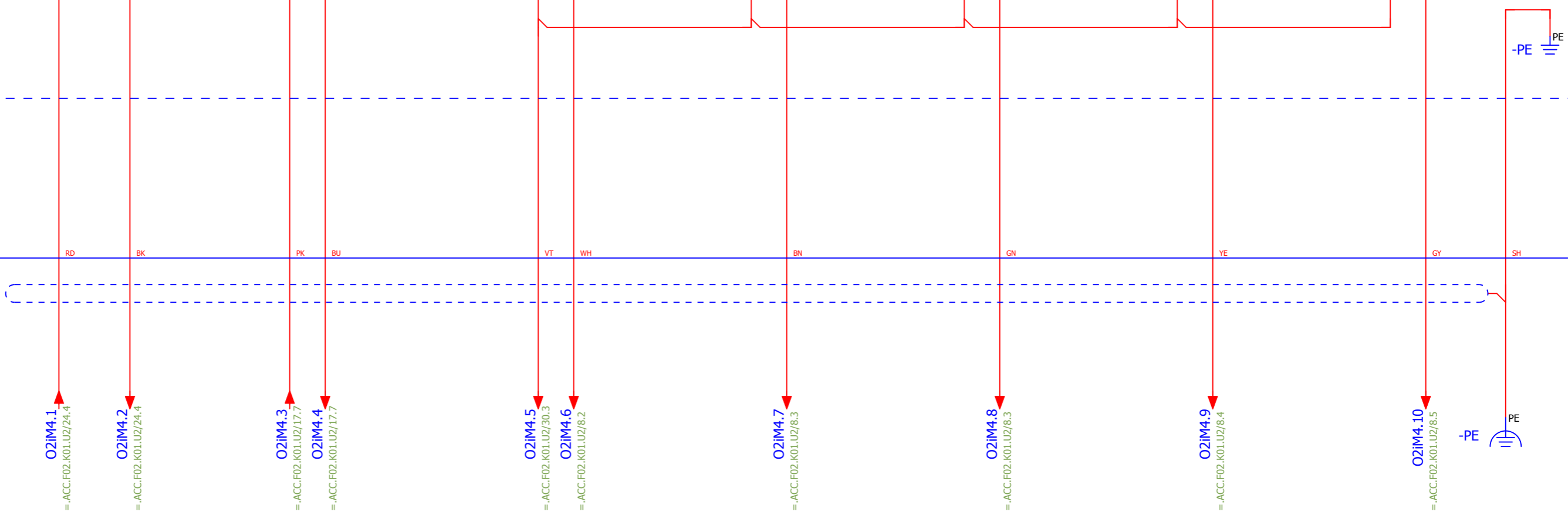
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OXIGRAF - OXYGEN DEFICIENCY MONITOR - BQ4



82C003731
 -WD4
 12x0,5



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



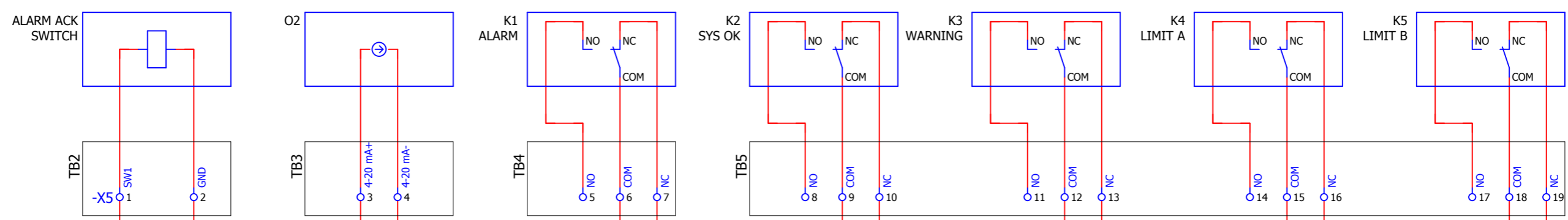
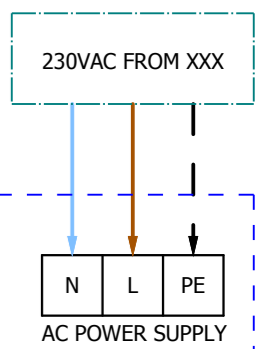
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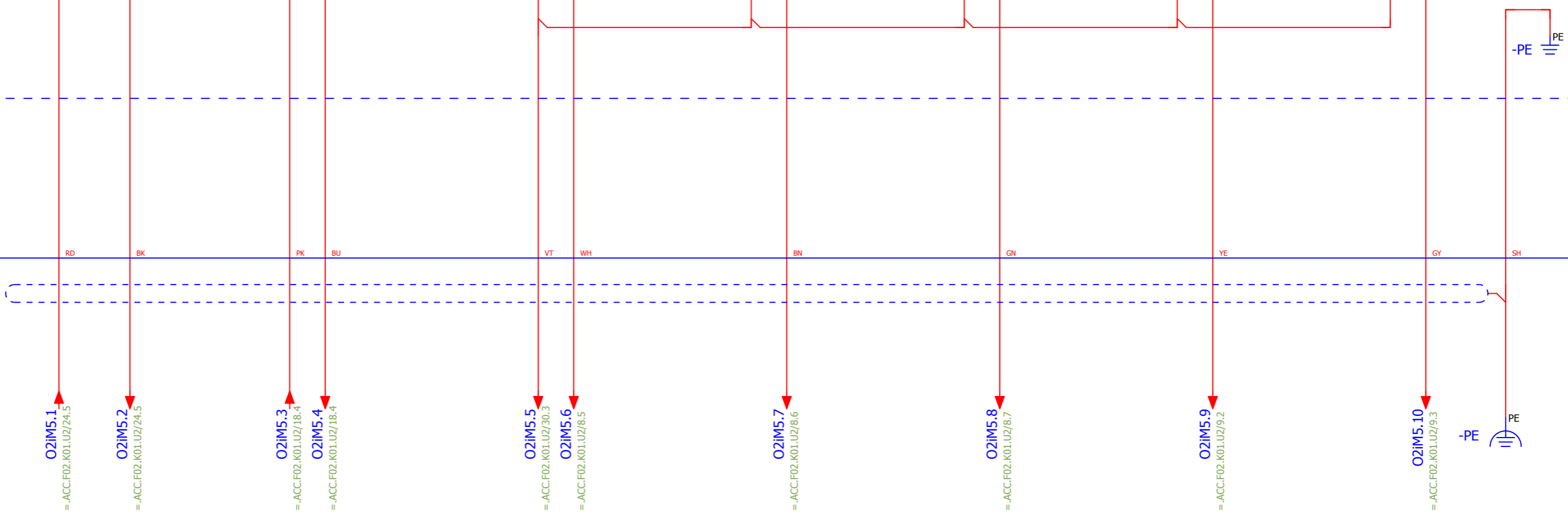
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OXIGRAF - OXYGEN DEFICIENCY MONITOR - BQ5



82C003732
 -WD5
 12x0,5



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



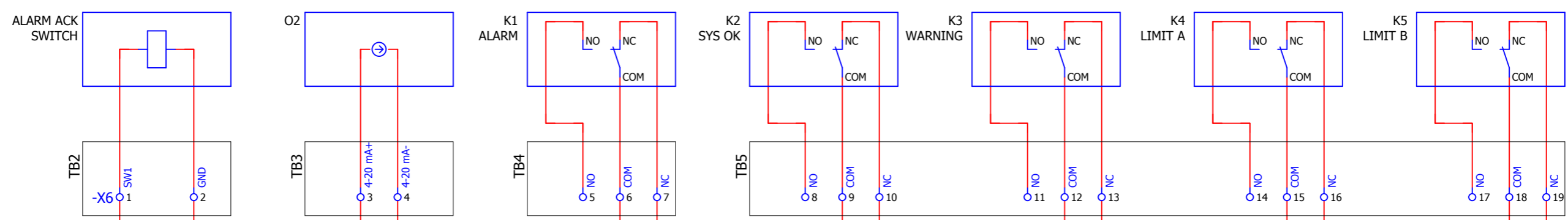
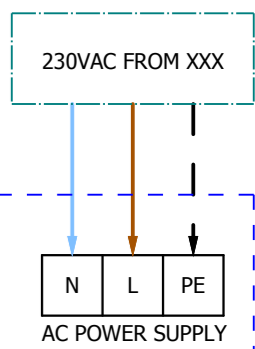
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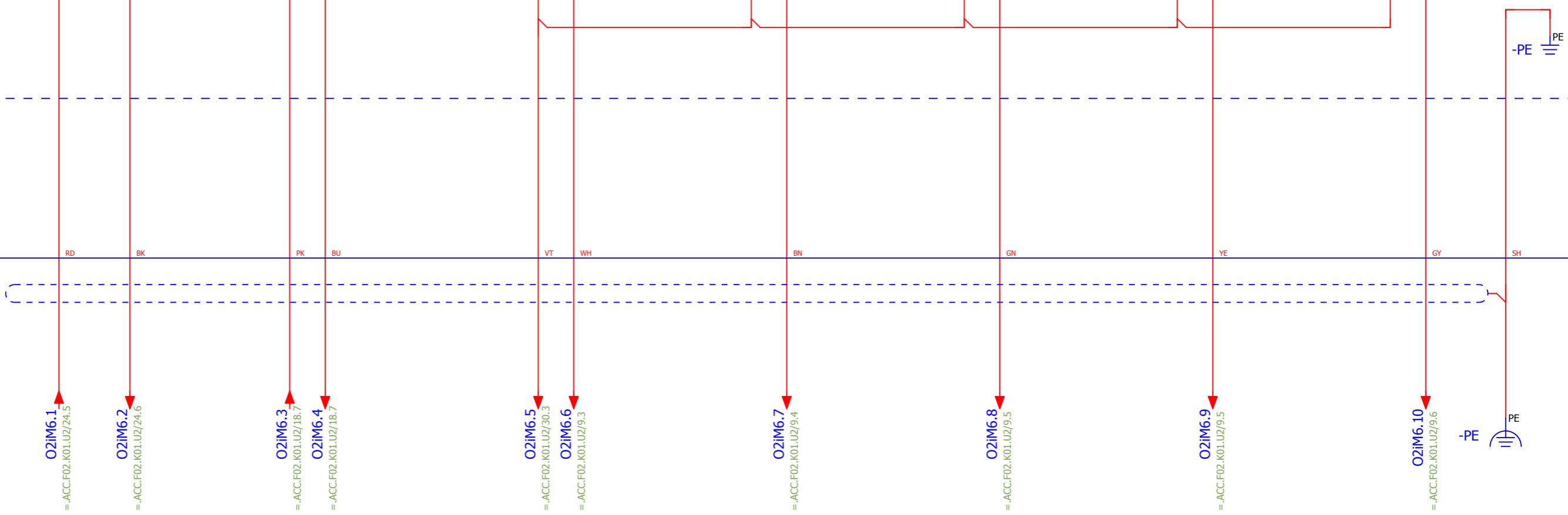
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 ESS.G04.100.7001

OXIGRAF - OXYGEN DEFICIENCY MONITOR - BQ6



82C003733
 -WD6
 12x0,5



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



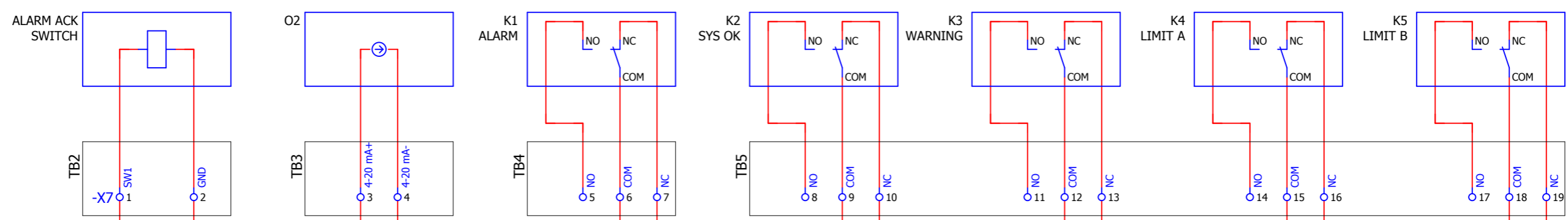
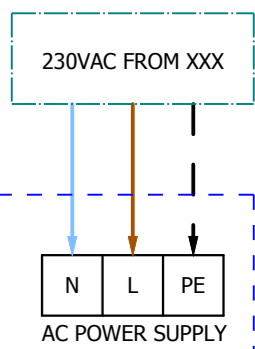
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CHECKED BY MM	DATE
APPROVED BY SLB	DATE 01-Sep-17
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PAGE TYPE Schematic multi-line
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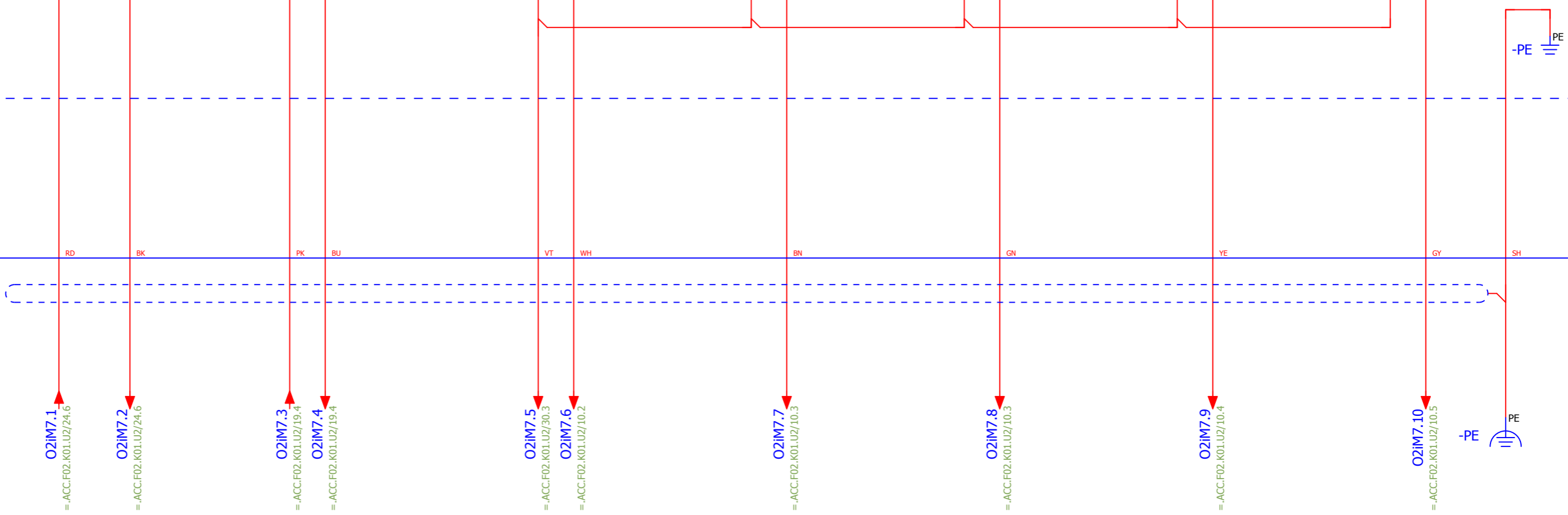
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OXIGRAF - OXYGEN DEFICIENCY MONITOR - BQ7



82C003734
 -WD7
 12x0,5



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



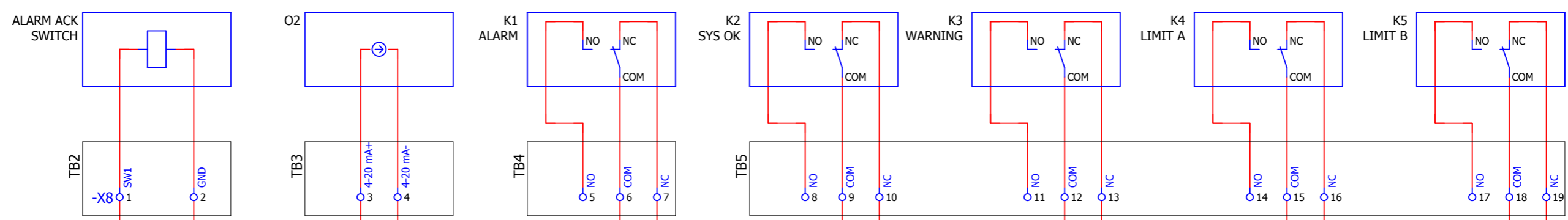
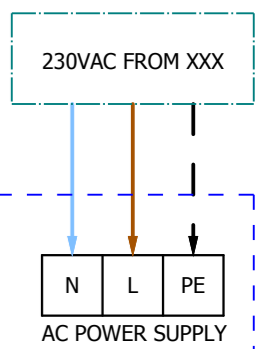
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PAGE TYPE	Schematic multi-line		
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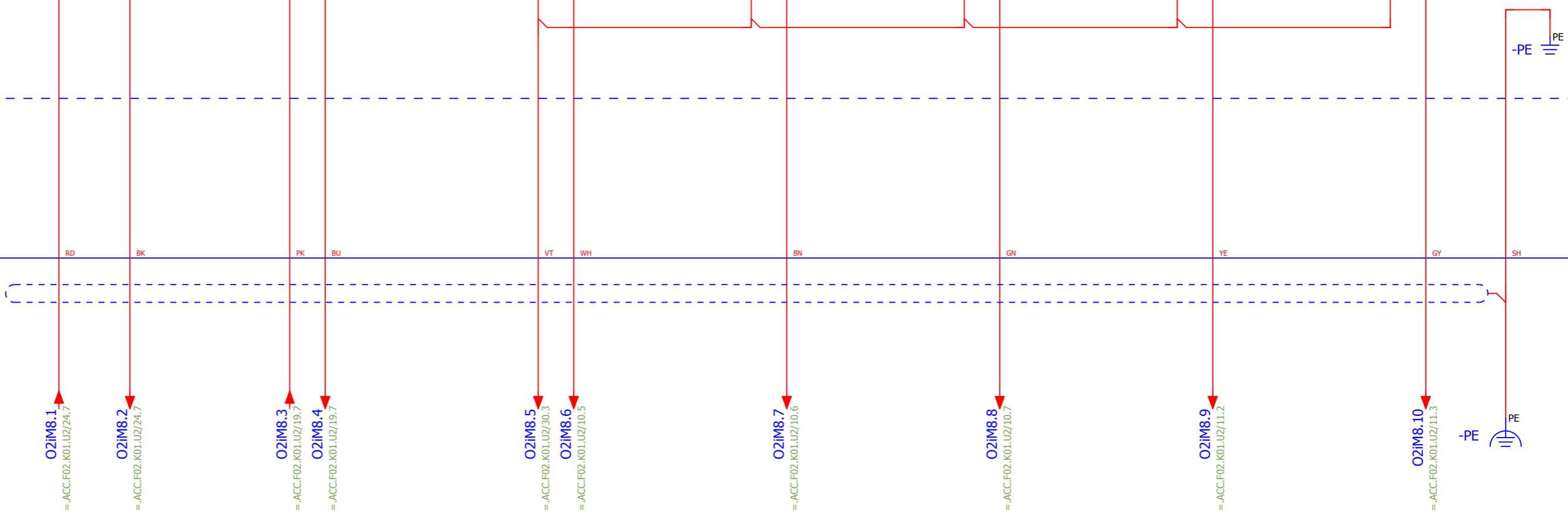
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 ESS.G04.100.7001

OXIGRAF - OXYGEN DEFICIENCY MONITOR - BQ8



82C003735
 -WD8
 12x0,5



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



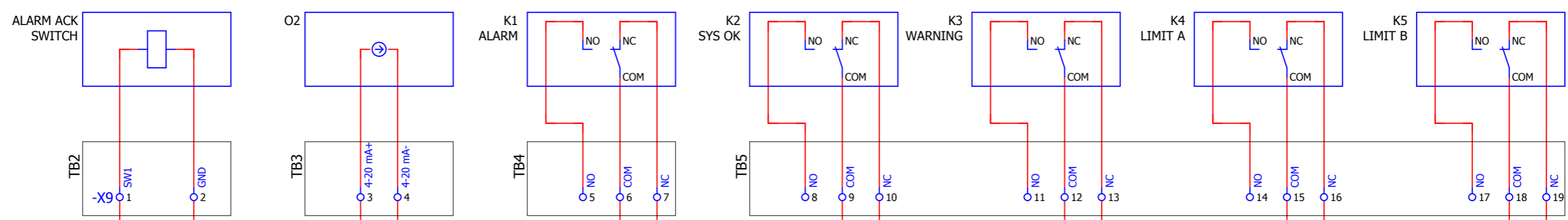
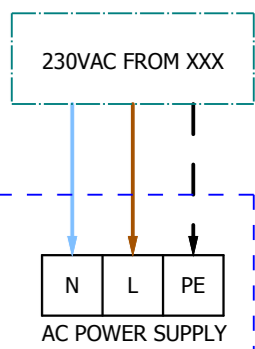
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APPROVED BY SLB	DATE 01-Sep-17
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DRAWING TITLE Accelerator ODH Detection System
PAGE TYPE Schematic multi-line
FUNCTION

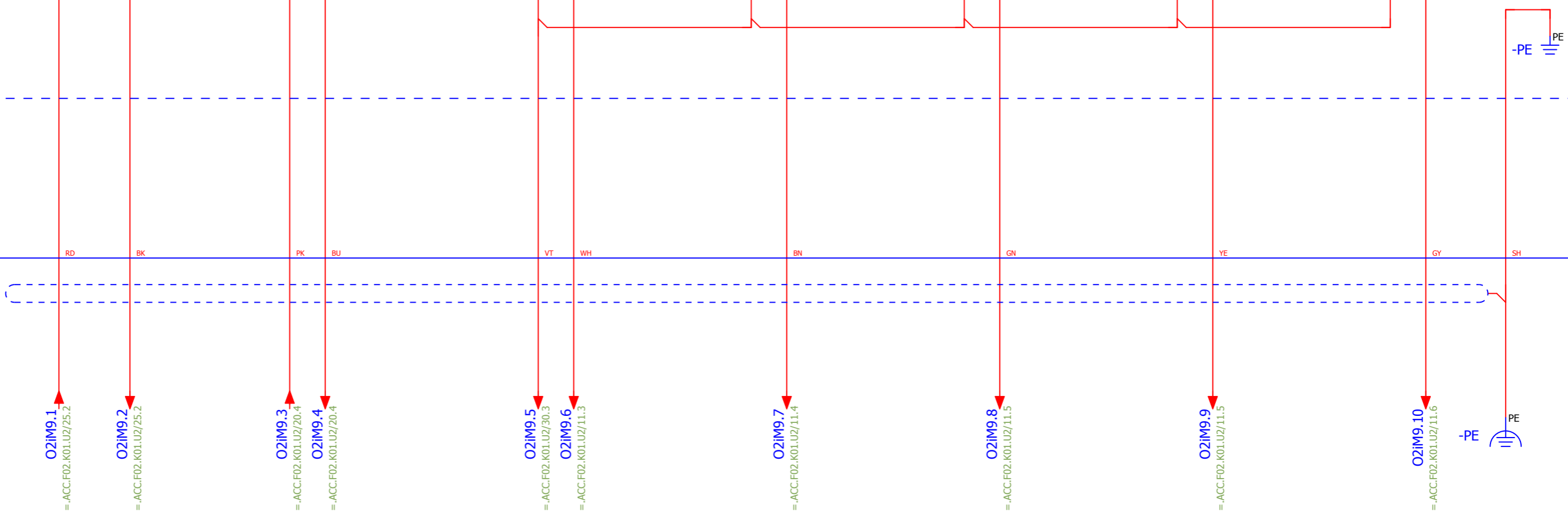
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OXIGRAF - OXYGEN DEFICIENCY MONITOR - BQ9



82C003736
 -WD9
 12x0,5



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



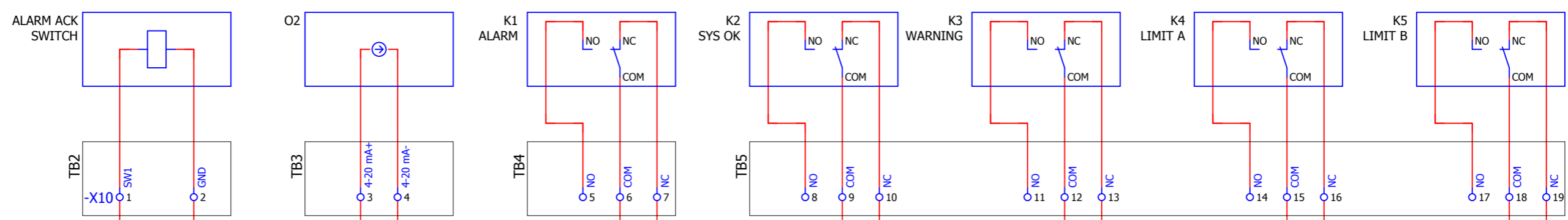
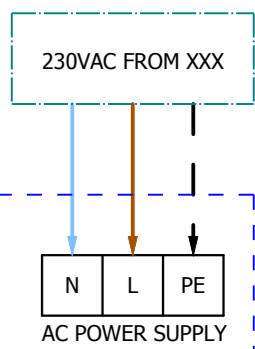
DRAWN BY MM & ATD	DATE 2017-09-01
CHECKED BY MM	DATE
APPROVED BY SLB	DATE 01-Sep-17
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DRAWING TITLE Accelerator ODH Detection System
PAGE TYPE Schematic multi-line
FUNCTION

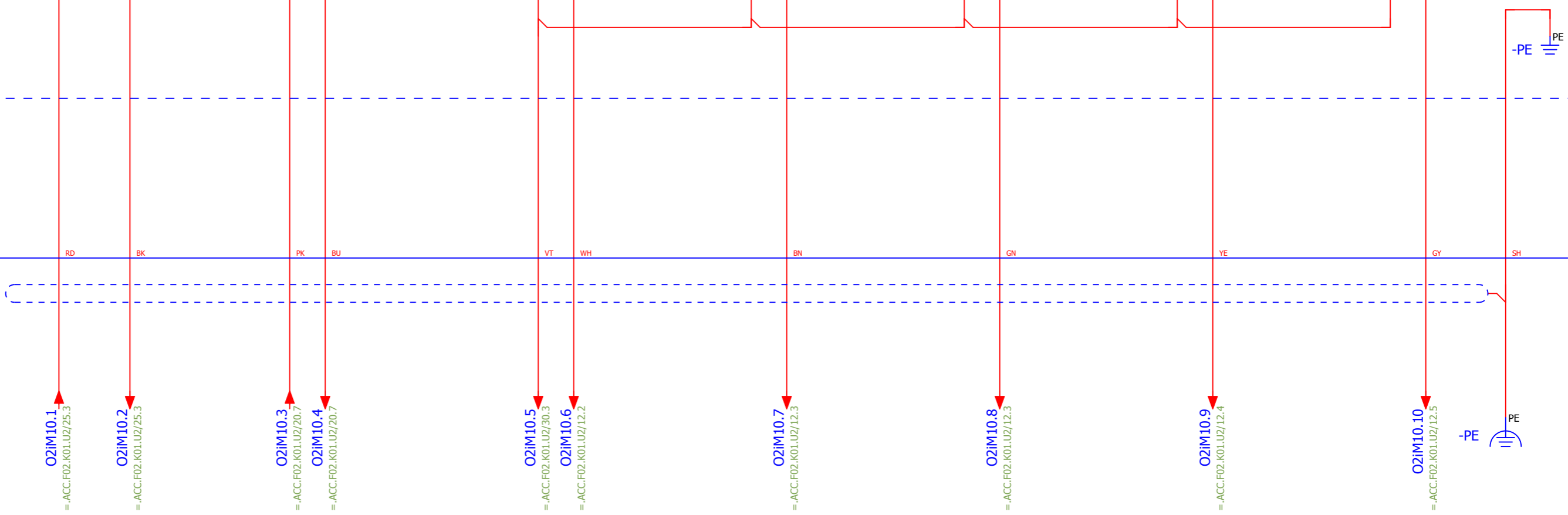
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OXIGRAF - OXYGEN DEFICIENCY MONITOR - BQ10



82C003737
 -WD10
 12x0,5



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



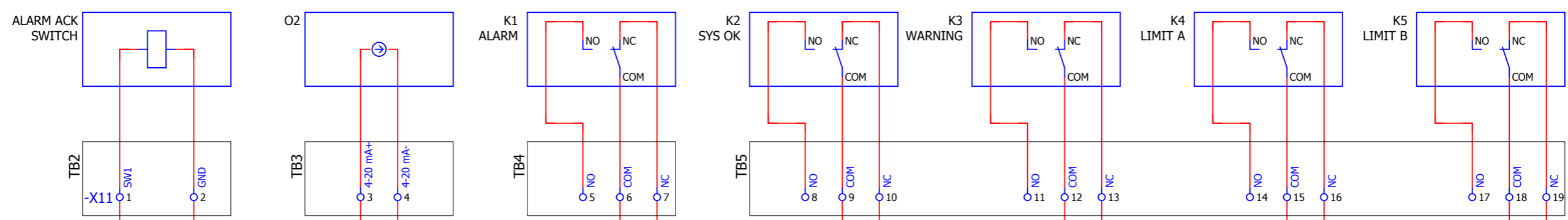
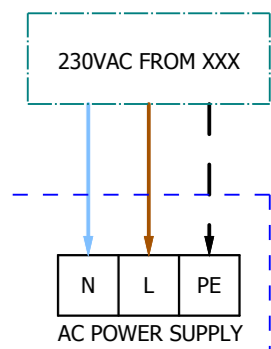
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PAGE TYPE	Schematic multi-line		
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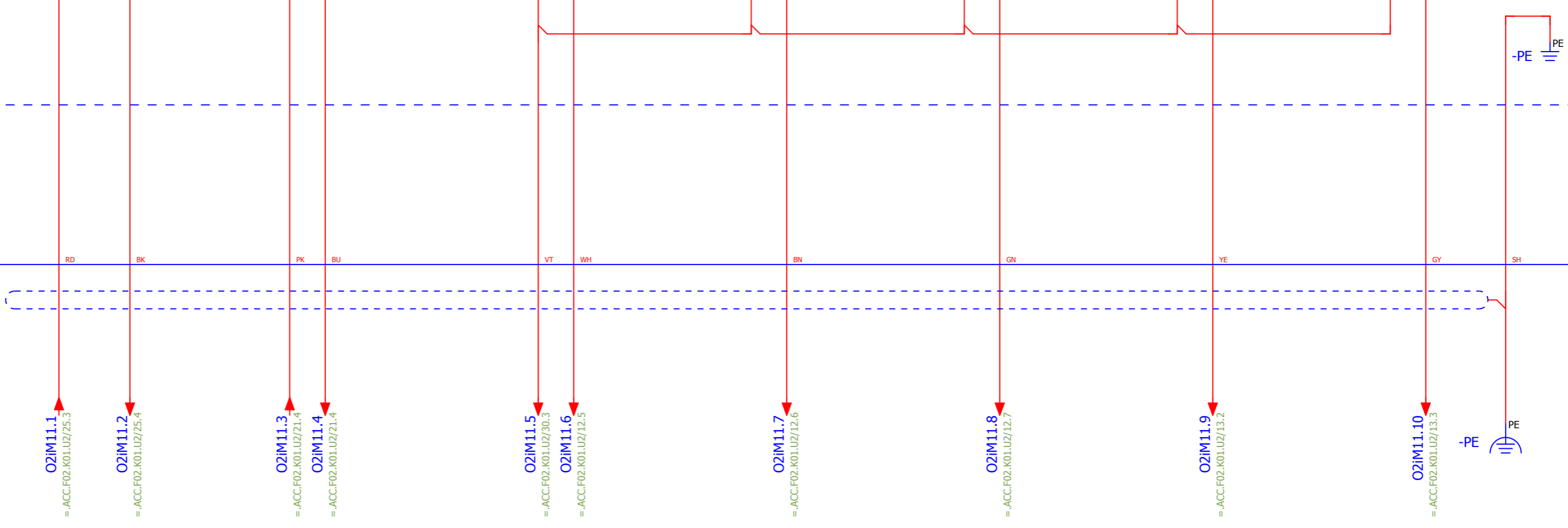
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OXIGRAF - OXYGEN DEFICIENCY MONITOR - BQ11



82C003738
 -WD11
 12x0,5



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



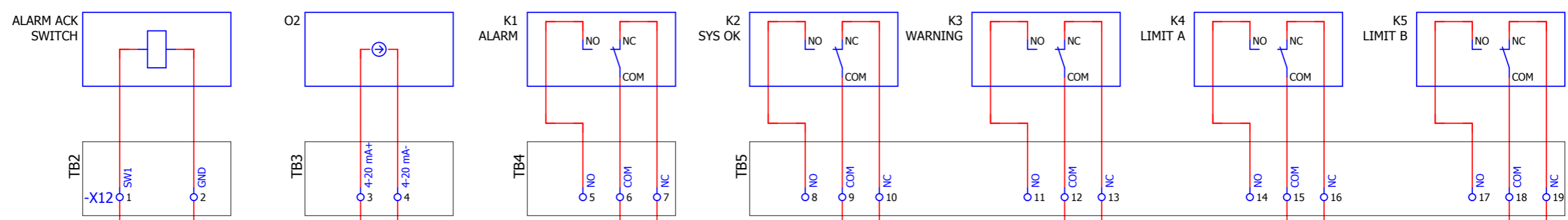
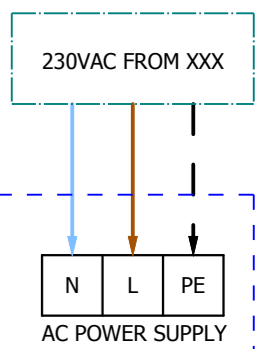
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PAGE TYPE Schematic multi-line
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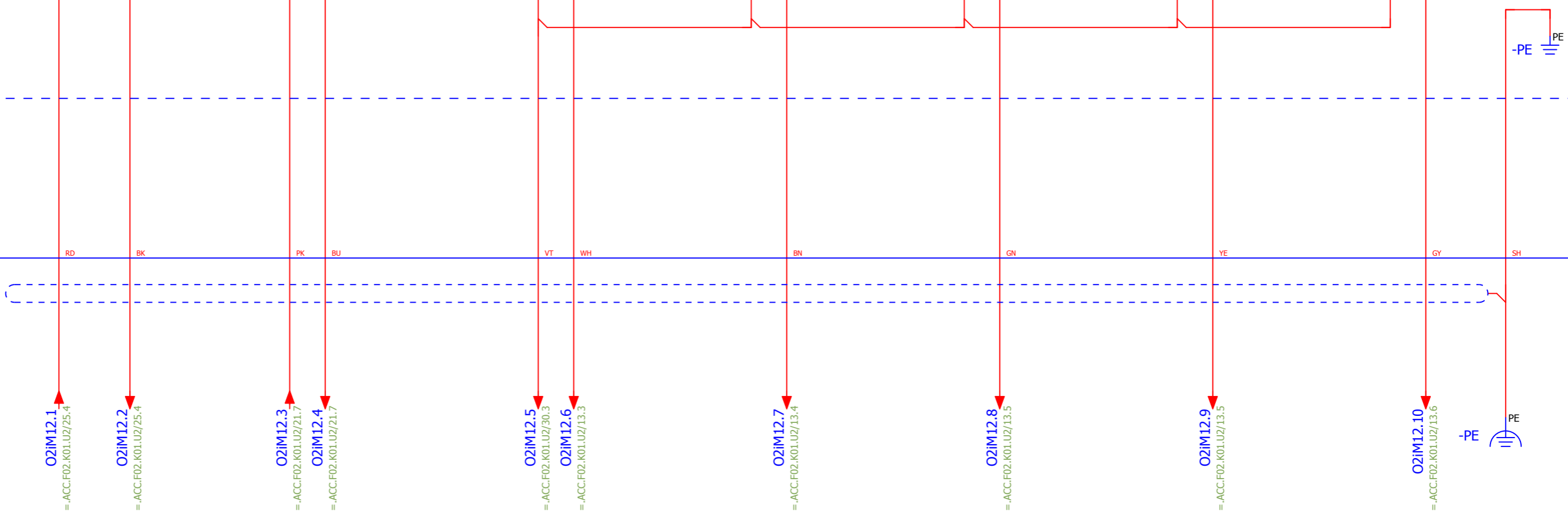
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OXIGRAF - OXYGEN DEFICIENCY MONITOR - BQ12



82C003739
 -WD12
 12x0,5



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



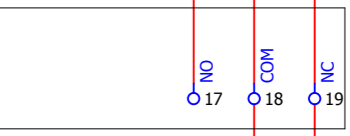
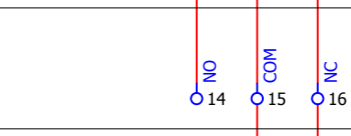
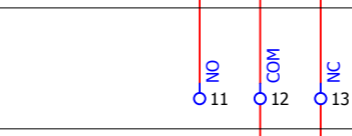
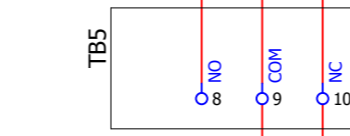
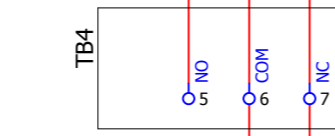
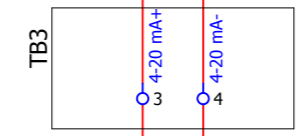
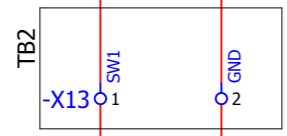
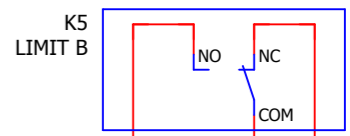
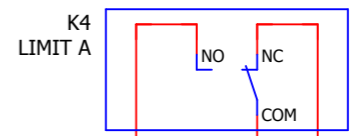
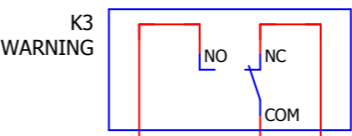
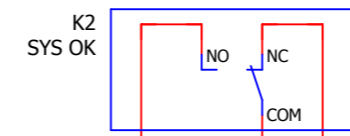
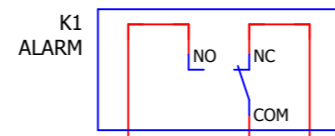
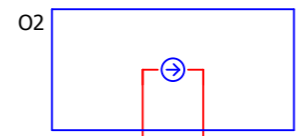
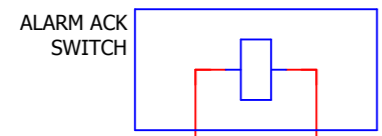
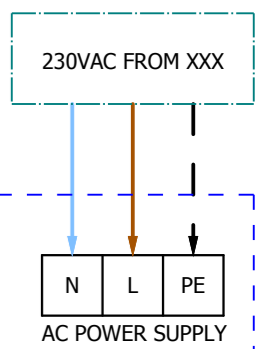
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DRAWING TITLE Accelerator ODH Detection System
PAGE TYPE Schematic multi-line
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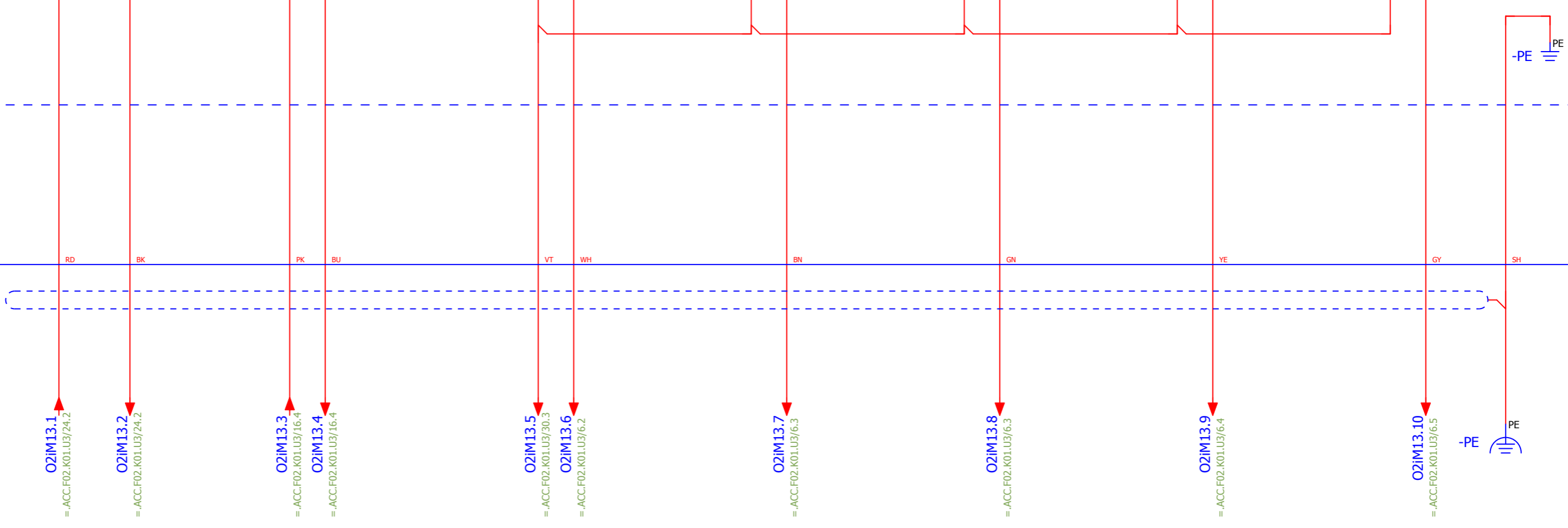
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OXIGRAF - OXYGEN DEFICIENCY MONITOR - BQ13



82C003740
 -WD13
 12x0,5



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



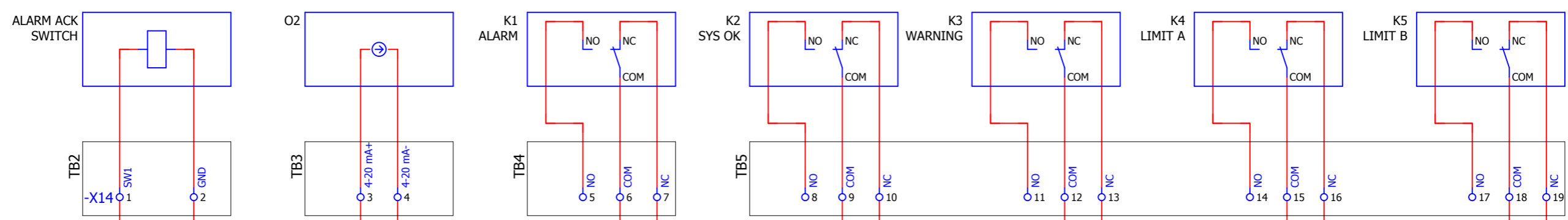
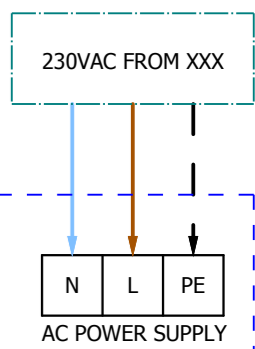
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 DATE: 01-Sep-17
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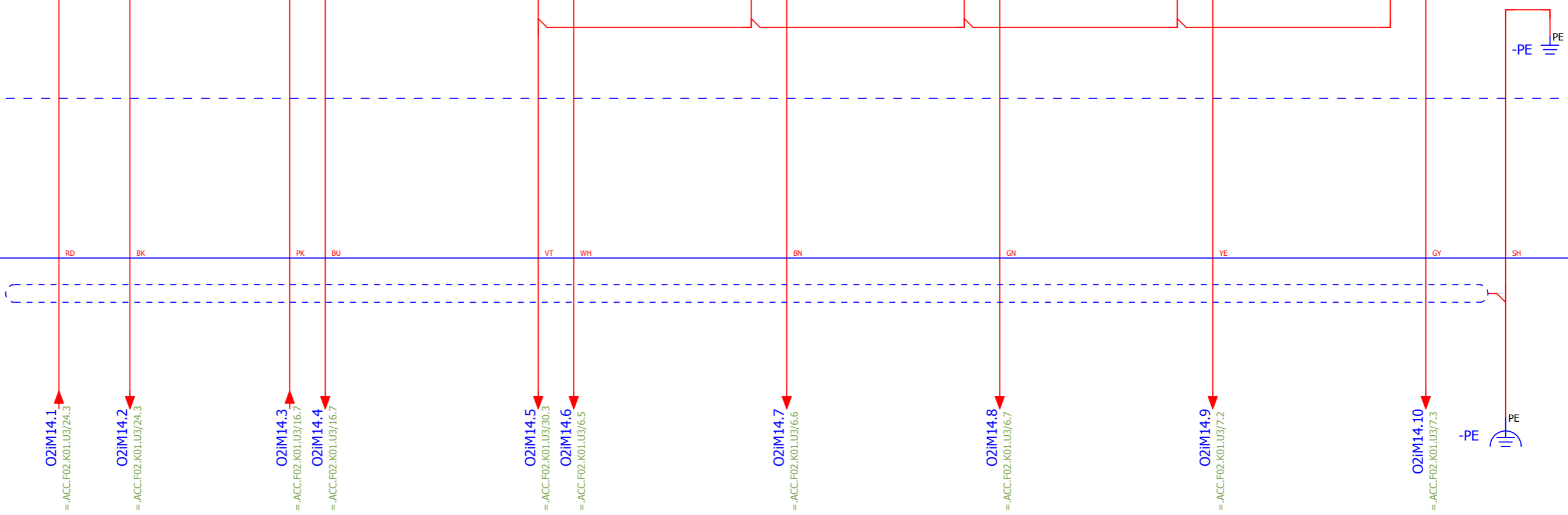
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 ESS.G02.100.2002

OXIGRAF - OXYGEN DEFICIENCY MONITOR - BQ14



82C003741
 -WD14
 12x0,5



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



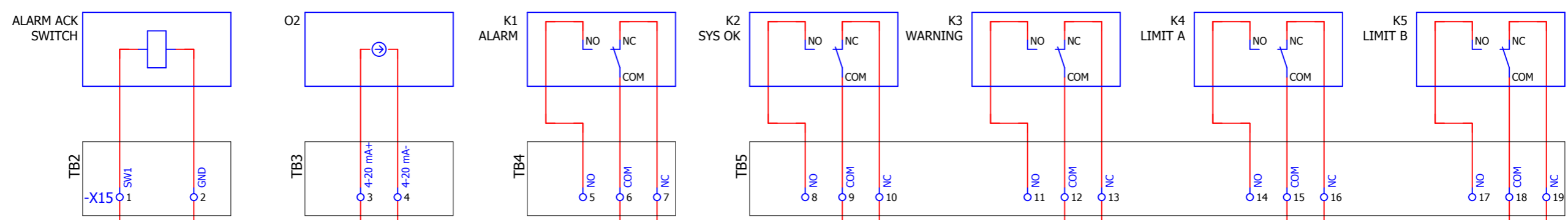
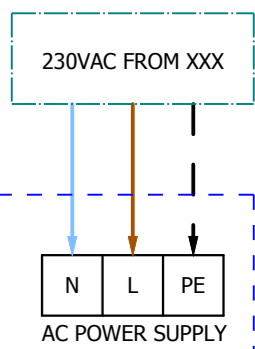
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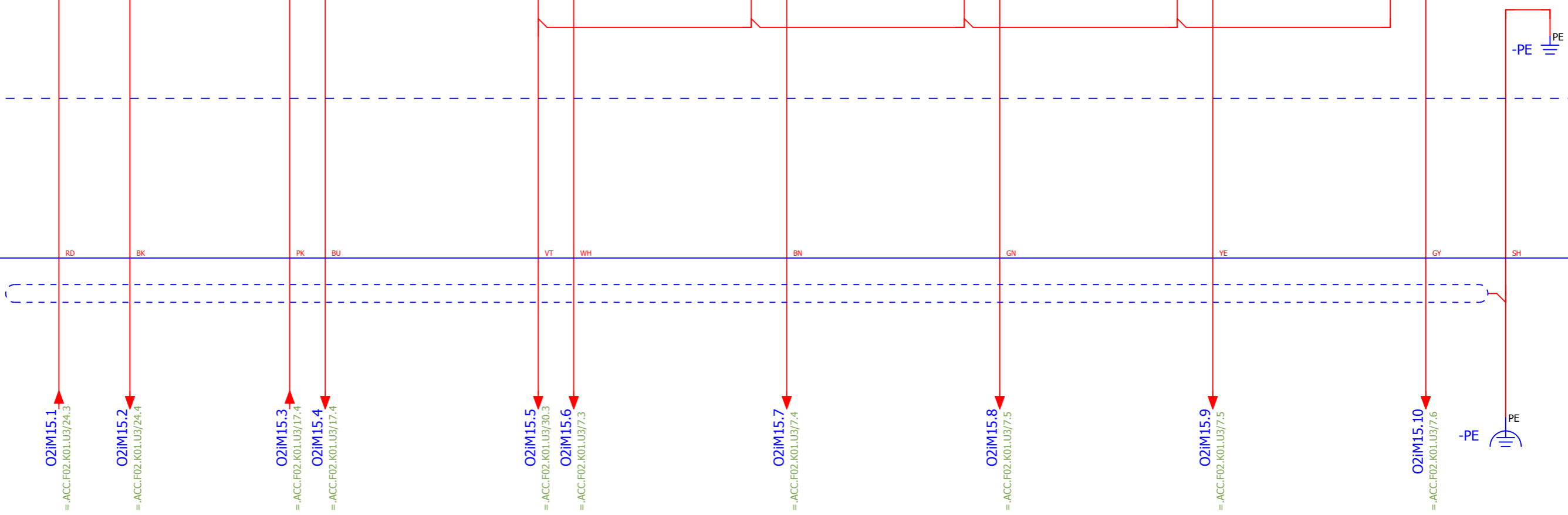
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OXIGRAF - OXYGEN DEFICIENCY MONITOR - BQ15



82C003742
 -WD15
 12x0,5



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



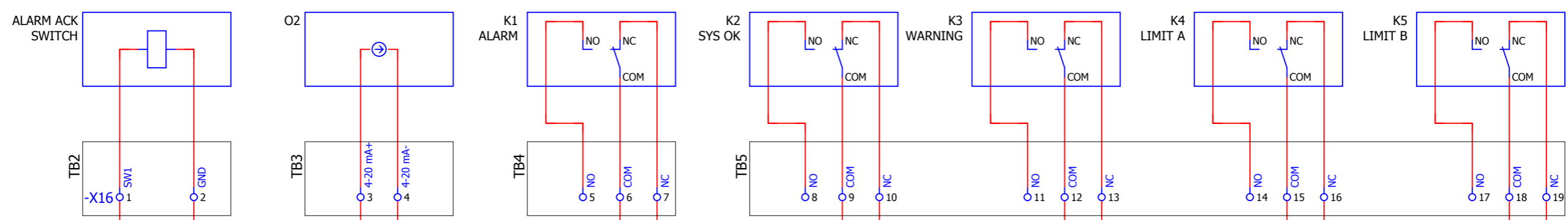
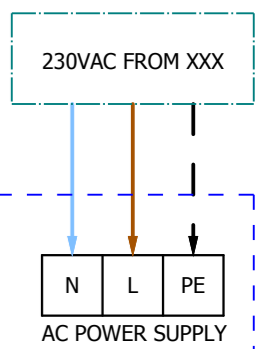
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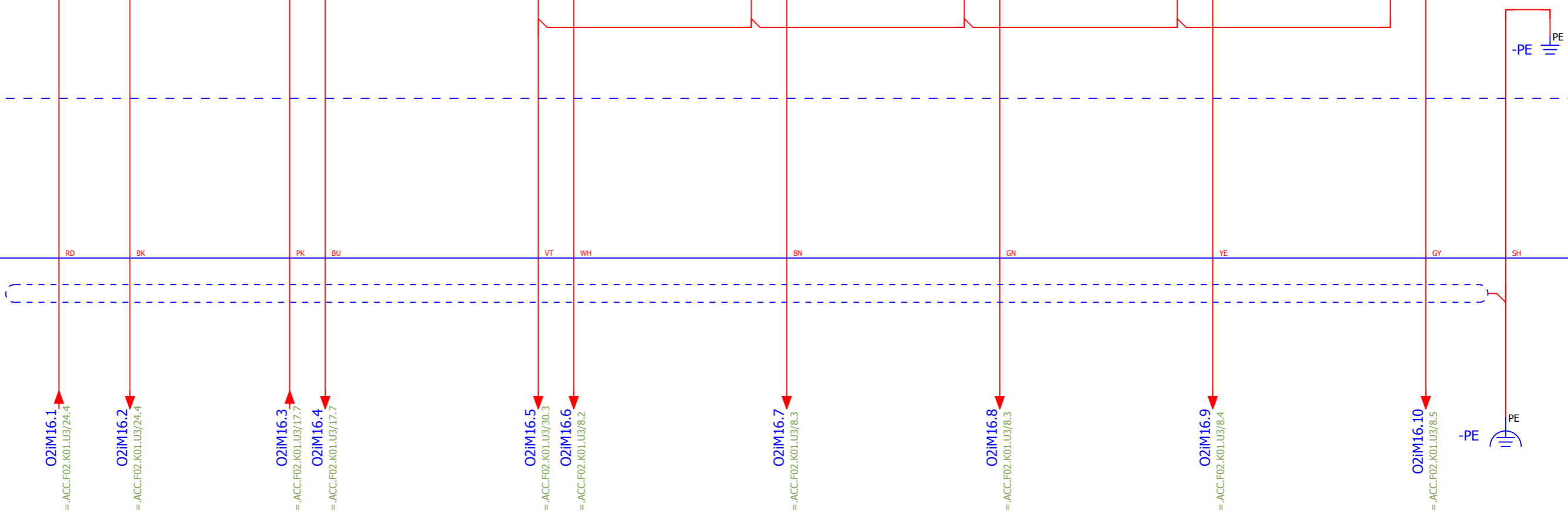
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OXIGRAF - OXYGEN DEFICIENCY MONITOR - BQ16



82C003743
 -WD16
 12x0,5



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



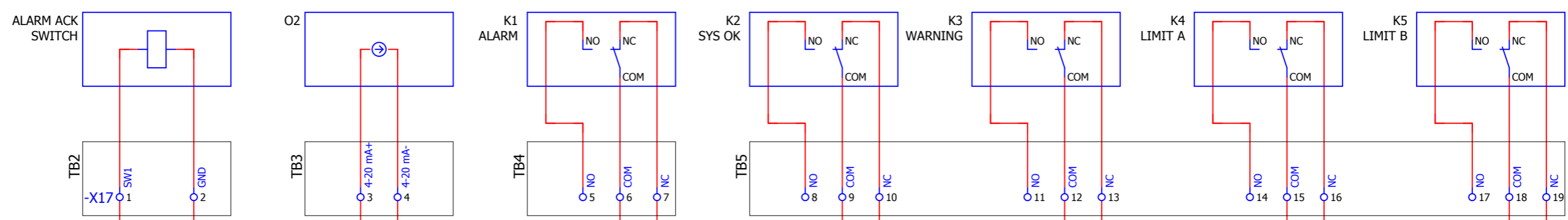
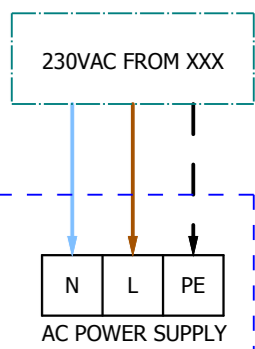
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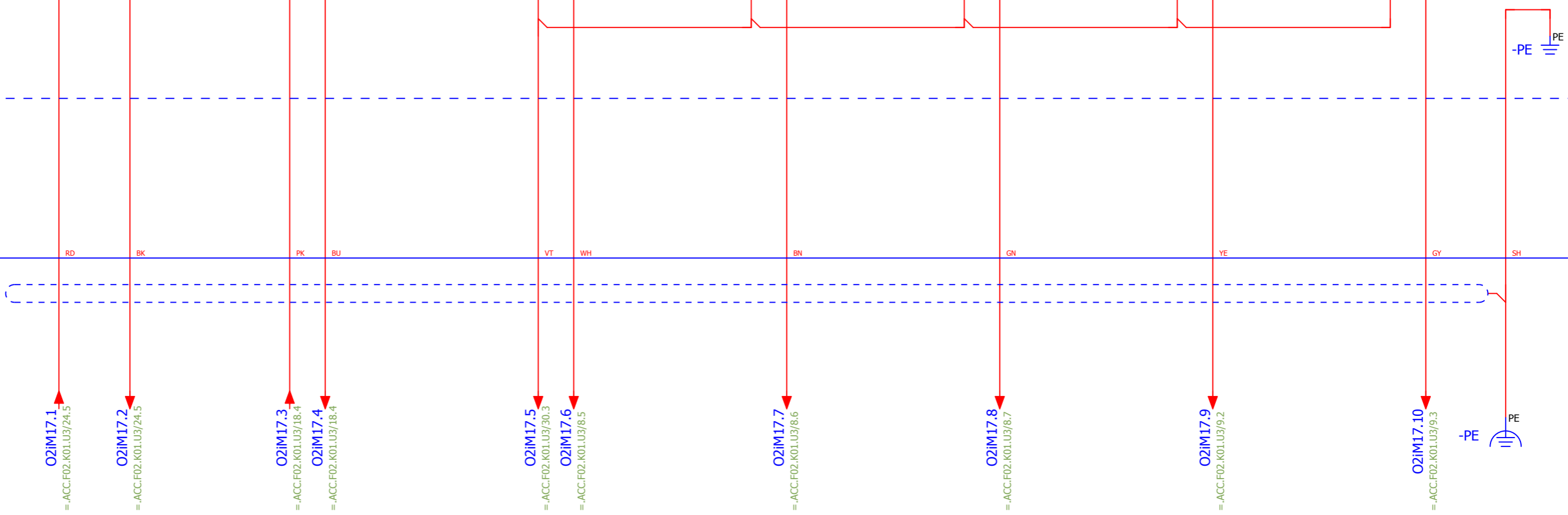
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OXIGRAF - OXYGEN DEFICIENCY MONITOR - BQ17



82C003744
 -WD17
 12x0,5



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



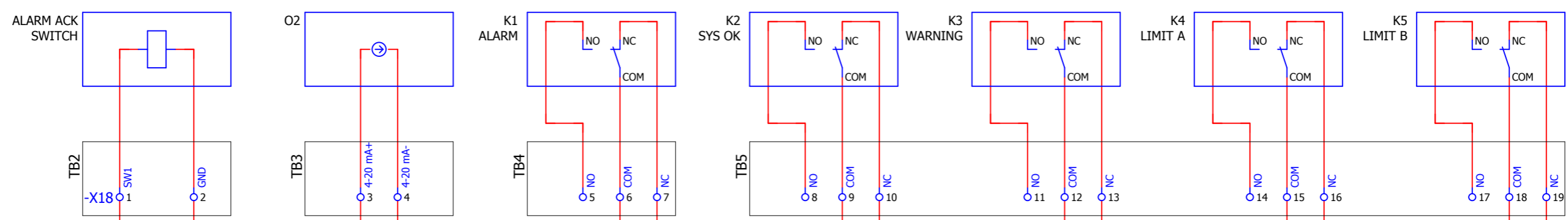
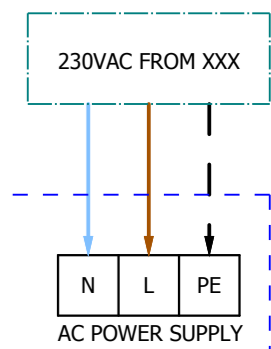
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PAGE TYPE Schematic multi-line
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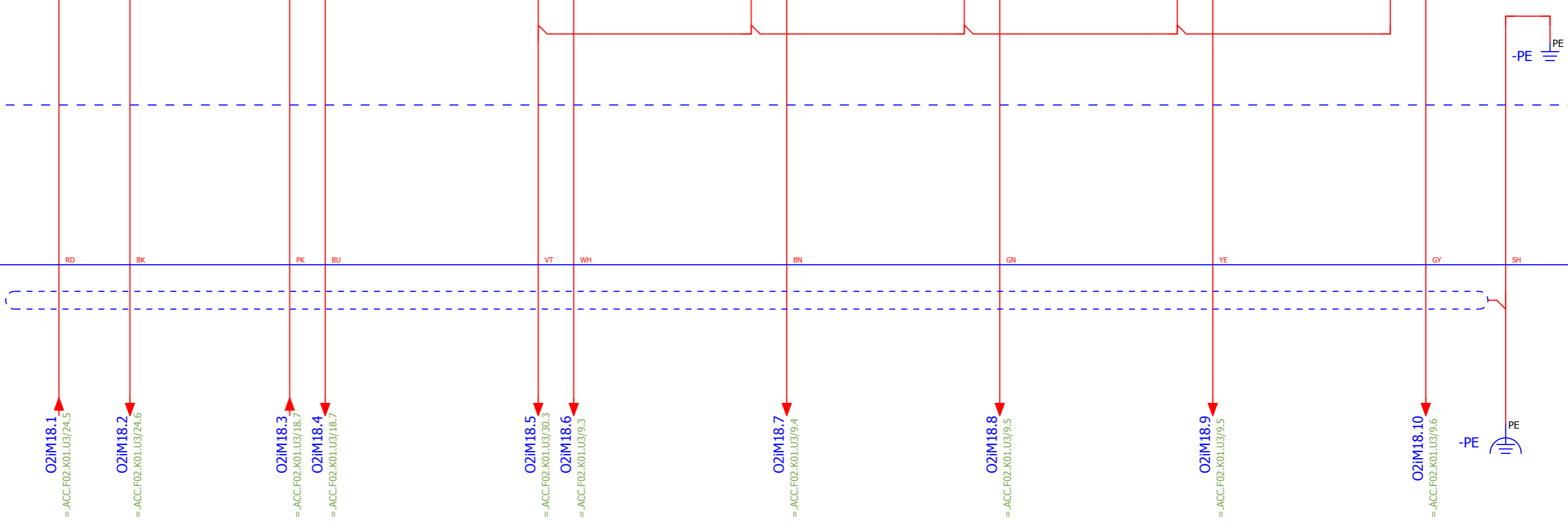
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OXIGRAF - OXYGEN DEFICIENCY MONITOR - BQ18



82C003745
 -WD18
 12x0,5



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.

EUROPEAN SPALLATION SOURCE

Documentation protection ISO 16016

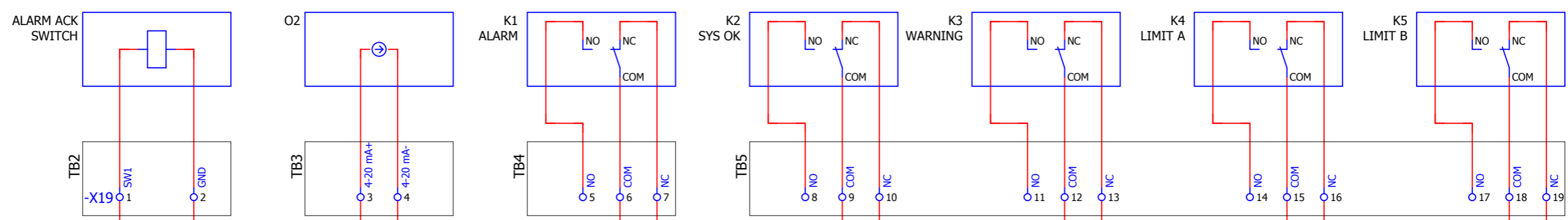
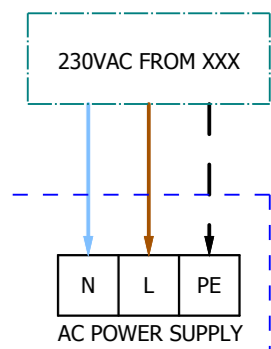
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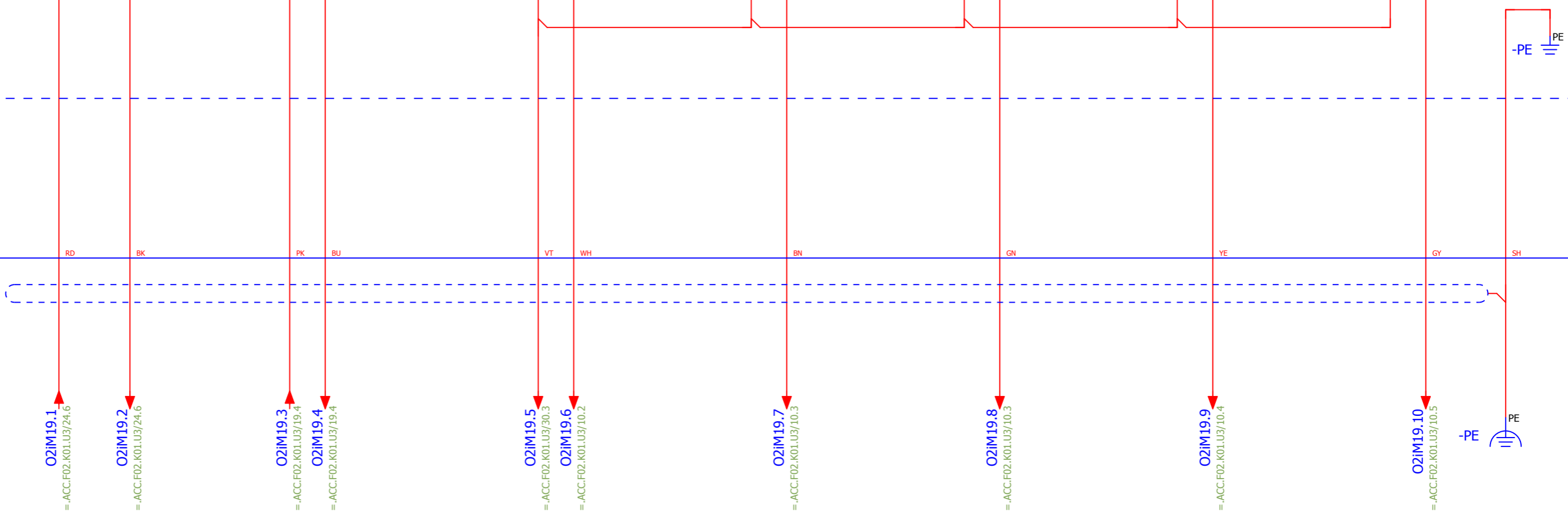
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OXIGRAF - OXYGEN DEFICIENCY MONITOR - BQ19



82C003746
 -WD19
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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



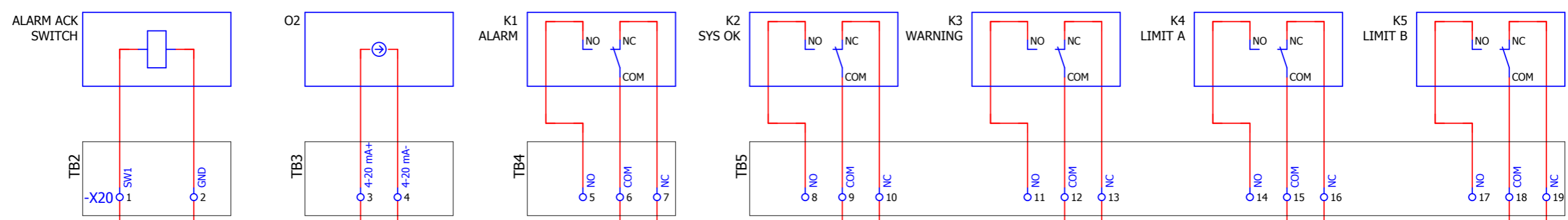
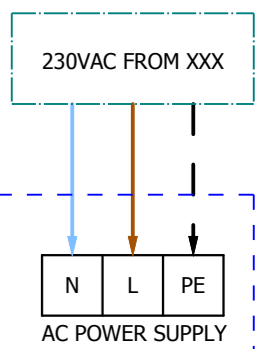
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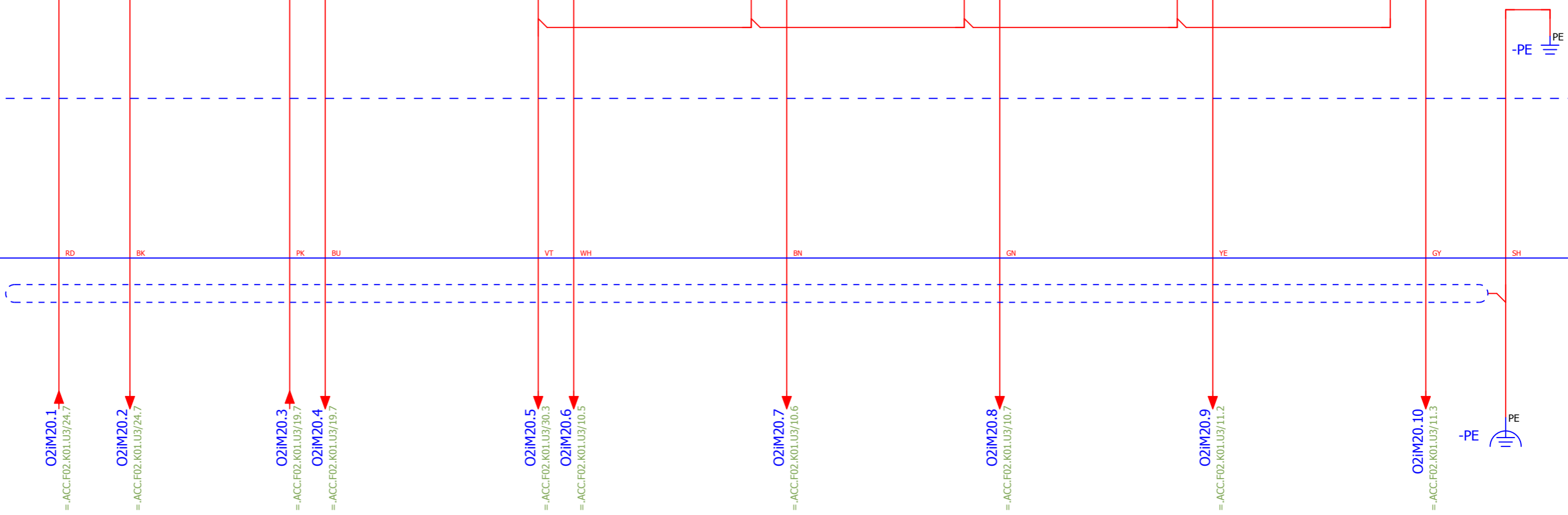
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OXIGRAF - OXYGEN DEFICIENCY MONITOR - BQ20



82C003747
 -WD20
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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



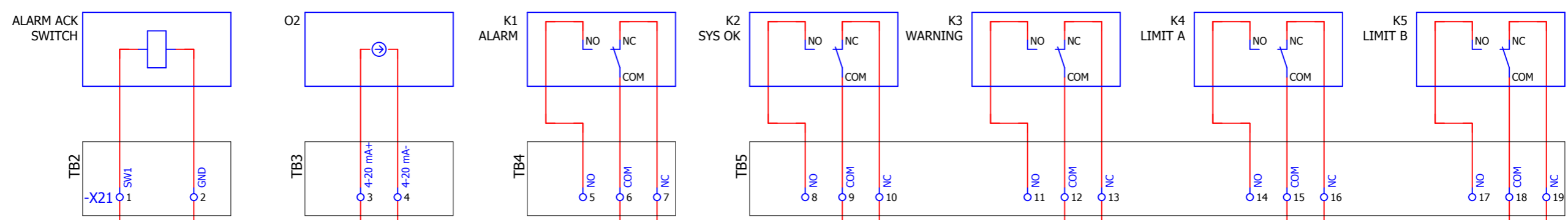
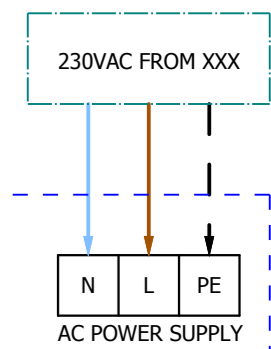
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PAGE TYPE	Schematic multi-line		
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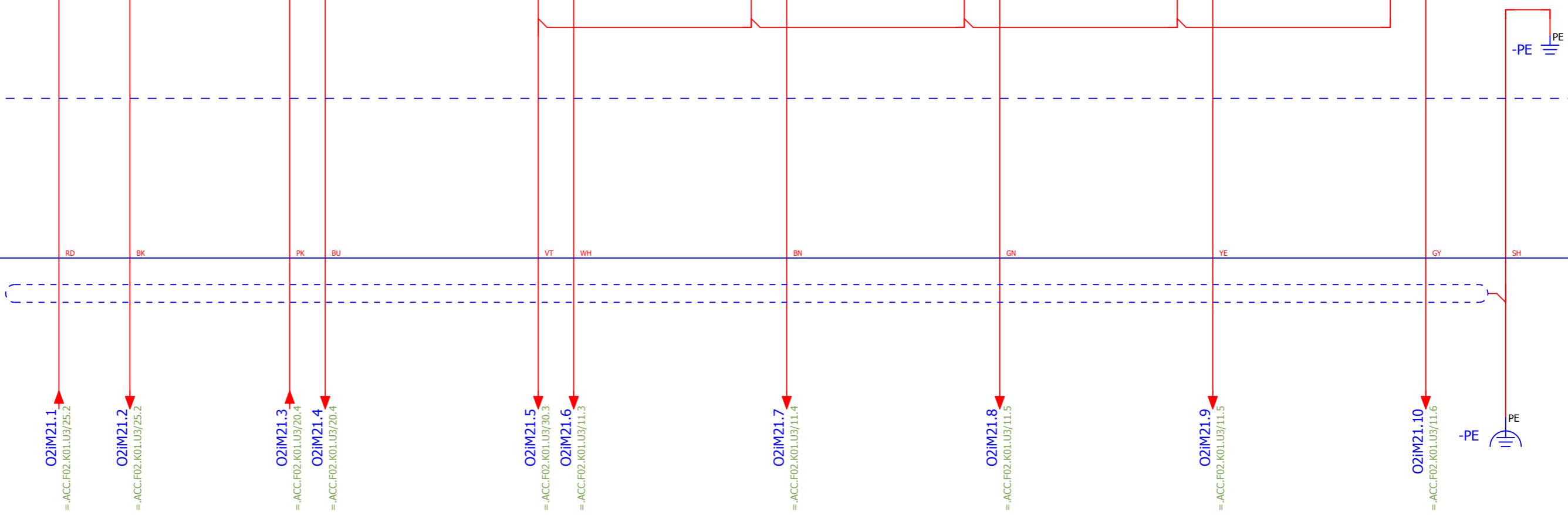
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OXIGRAF - OXYGEN DEFICIENCY MONITOR - BQ21



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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



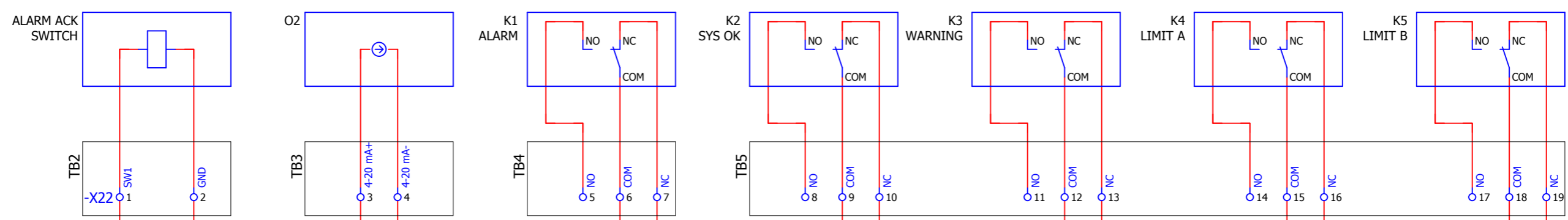
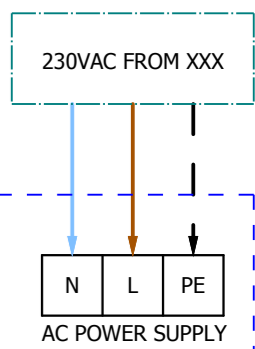
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FUNCTION			

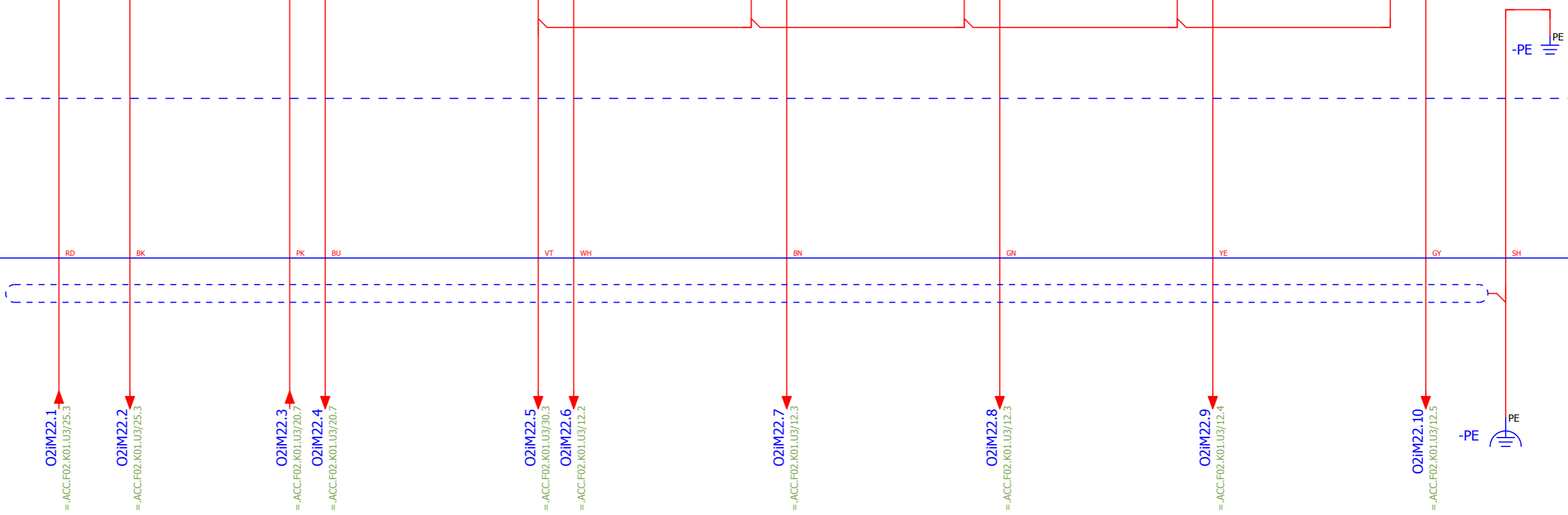
DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.B01&FS/21		
NEXT	22		

ACC.F02.B01.BQ22
 CTLG-CS:ODH-02iM-22
 ESS.G04.090.7002

OXIGRAF - OXYGEN DEFICIENCY MONITOR - BQ22



82C003749
 -WD22
 12x0,5



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Schematic multi-line		
FUNCTION			

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.B01&FS/22		
NEXT	&MB/1		

Cable diagram

F09_003

No. of conductors
12

Cable type
UNITRONIC® LiHCH (TP)

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.B01+ESS.G04.100.7002-WD1

Function text	X-Ref	Target designation from			Target designation to	X-Ref	Function text
	+&FS/1.4	=.ACC.F02.B01.BQ1-X1:7	WH	WH	=.ACC.F02.K01.U2-X1:1	=.ACC.F02.K01.U2+&FS/6.2	
	+&FS/1.5	=.ACC.F02.B01.BQ1-X1:10	BN	BN	=.ACC.F02.K01.U2-X1:2	=.ACC.F02.K01.U2+&FS/6.3	
	+&FS/1.6	=.ACC.F02.B01.BQ1-X1:13	GN	GN	=.ACC.F02.K01.U2-X1:3	=.ACC.F02.K01.U2+&FS/6.3	
	+&FS/1.7	=.ACC.F02.B01.BQ1-X1:16	YE	YE	=.ACC.F02.K01.U2-X1:4	=.ACC.F02.K01.U2+&FS/6.4	
	+&FS/1.9	=.ACC.F02.B01.BQ1-X1:19	GY	GY	=.ACC.F02.K01.U2-X1:5	=.ACC.F02.K01.U2+&FS/6.5	
	+&FS/1.2	=.ACC.F02.B01.BQ1-X1:3	PK	PK	=.ACC.F02.K01.U2-X6:3	=.ACC.F02.K01.U2+&FS/16.4	
	+&FS/1.3	=.ACC.F02.B01.BQ1-X1:4	BU	BU	=.ACC.F02.K01.U2-X6:4	=.ACC.F02.K01.U2+&FS/16.4	
	+&FS/1.1	=.ACC.F02.B01.BQ1-X1:1	RD	RD	=.ACC.F02.K01.U2-X10:1	=.ACC.F02.K01.U2+&FS/24.2	
	+&FS/1.2	=.ACC.F02.B01.BQ1-X1:2	BK	BK	=.ACC.F02.K01.U2-X10:2	=.ACC.F02.K01.U2+&FS/24.2	
	+&FS/1.4	=.ACC.F02.B01.BQ1-X1:6	VT	VT	=.ACC.F02.K01.U2-X10:2	=.ACC.F02.K01.U2+&FS/30.2	
			GYPK	GYPK			
			RDBU	RDBU			
	+&FS/1.9	-PE:PE	SH	SH	=.ACC.F02.B01.BQ1-PE:PE	+&FS/1.9	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY MM & ATD	DATE 2017-09-01
CHECKED BY MM	DATE
APPROVED BY SLB	DATE 01-Sep-17
DESIGN SITE ESS	

DRAWING TITLE Accelerator ODH Detection System
PAGE TYPE Cable diagram
FUNCTION

DRAWING NUMBER (Doc) ESS-0089356			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
SHEET =ESS.ACC.F02.B01&MB/1			
NEXT 2			

Cable diagram

F09_003

No. of conductors
12

Cable type
UNITRONIC® LiHCH (TP)

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.B01+ESS.G04.100.7002-WD2

Function text	X-Ref	Target designation from			Target designation to	X-Ref	Function text
			WH		WH		
+&FS/2.4		=.ACC.F02.B01.BQ2-X2:7			=.ACC.F02.K01.U2-X1:6	=.ACC.F02.K01.U2+&FS/6.5	
+&FS/2.5		=.ACC.F02.B01.BQ2-X2:10	BN		=.ACC.F02.K01.U2-X1:7	=.ACC.F02.K01.U2+&FS/6.6	
+&FS/2.6		=.ACC.F02.B01.BQ2-X2:13	GN		=.ACC.F02.K01.U2-X1:8	=.ACC.F02.K01.U2+&FS/6.7	
+&FS/2.7		=.ACC.F02.B01.BQ2-X2:16	YE		=.ACC.F02.K01.U2-X1:9	=.ACC.F02.K01.U2+&FS/7.2	
+&FS/2.9		=.ACC.F02.B01.BQ2-X2:19	GY		=.ACC.F02.K01.U2-X1:10	=.ACC.F02.K01.U2+&FS/7.3	
+&FS/2.2		=.ACC.F02.B01.BQ2-X2:3	PK		=.ACC.F02.K01.U2-X6:7	=.ACC.F02.K01.U2+&FS/16.7	
+&FS/2.3		=.ACC.F02.B01.BQ2-X2:4	BU		=.ACC.F02.K01.U2-X6:8	=.ACC.F02.K01.U2+&FS/16.7	
+&FS/2.1		=.ACC.F02.B01.BQ2-X2:1	RD		=.ACC.F02.K01.U2-X10:3	=.ACC.F02.K01.U2+&FS/24.3	
+&FS/2.2		=.ACC.F02.B01.BQ2-X2:2	BK		=.ACC.F02.K01.U2-X10:4	=.ACC.F02.K01.U2+&FS/24.3	
+&FS/2.4		=.ACC.F02.B01.BQ2-X2:6	VT		=.ACC.F02.K01.U2-X10:2	=.ACC.F02.K01.U2+&FS/30.2	
			GYPK				
			RDBU				
+&FS/2.9		-PE:PE	SH		=.ACC.F02.B01.BQ2-PE:PE	+&FS/2.9	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.B01&MB/2							
NEXT 3							

Cable diagram

F09_003

No. of conductors
12

Cable type
UNITRONIC® LiHCH (TP)

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.B01+ESS.G04.100.7002-WD3

Function text	X-Ref	Target designation from			Target designation to	X-Ref	Function text	
	+&FS/3.1	=.ACC.F02.B01.BQ3-X3:1			WH	WH	=.ACC.F02.K01.U2-X10:5	=.ACC.F02.K01.U2+&FS/24.3
	+&FS/3.2	=.ACC.F02.B01.BQ3-X3:2			BN	BN	=.ACC.F02.K01.U2-X10:6	=.ACC.F02.K01.U2+&FS/24.4
	+&FS/3.2	=.ACC.F02.B01.BQ3-X3:3			GN	GN	=.ACC.F02.K01.U2-X6:11	=.ACC.F02.K01.U2+&FS/17.4
	+&FS/3.3	=.ACC.F02.B01.BQ3-X3:4			YE	YE	=.ACC.F02.K01.U2-X6:12	=.ACC.F02.K01.U2+&FS/17.4
	+&FS/3.4	=.ACC.F02.B01.BQ3-X3:6			GY	GY	=.ACC.F02.K01.U2-X10:2	=.ACC.F02.K01.U2+&FS/30.2
	+&FS/3.4	=.ACC.F02.B01.BQ3-X3:7			PK	PK	=.ACC.F02.K01.U2-X1:11	=.ACC.F02.K01.U2+&FS/7.3
	+&FS/3.5	=.ACC.F02.B01.BQ3-X3:10			BU	BU	=.ACC.F02.K01.U2-X1:12	=.ACC.F02.K01.U2+&FS/7.4
	+&FS/3.6	=.ACC.F02.B01.BQ3-X3:13			RD	RD	=.ACC.F02.K01.U2-X1:13	=.ACC.F02.K01.U2+&FS/7.5
	+&FS/3.7	=.ACC.F02.B01.BQ3-X3:16			BK	BK	=.ACC.F02.K01.U2-X1:14	=.ACC.F02.K01.U2+&FS/7.5
	+&FS/3.9	=.ACC.F02.B01.BQ3-X3:19			VT	VT	=.ACC.F02.K01.U2-X1:15	=.ACC.F02.K01.U2+&FS/7.6
					GYPK	GYPK		
					RDBU	RDBU		
	+&FS/3.9	-PE:PE	SH	SH	=.ACC.F02.B01.BQ3-PE:PE	+&FS/3.9		

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.B01&MB/3		
NEXT	4		

Cable diagram

F09_003

No. of conductors
12

Cable type
UNITRONIC® LiHCH (TP)

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.B01+ESS.G04.100.7002-WD4

Function text	X-Ref	Target designation from			Target designation to	X-Ref	Function text
			WH		WH		
+&FS/4.4		=.ACC.F02.B01.BQ4-X4:7			=.ACC.F02.K01.U2-X2:1	=.ACC.F02.K01.U2+&FS/8.2	
+&FS/4.5		=.ACC.F02.B01.BQ4-X4:10	BN		=.ACC.F02.K01.U2-X2:2	=.ACC.F02.K01.U2+&FS/8.3	
+&FS/4.6		=.ACC.F02.B01.BQ4-X4:13	GN		=.ACC.F02.K01.U2-X2:3	=.ACC.F02.K01.U2+&FS/8.3	
+&FS/4.7		=.ACC.F02.B01.BQ4-X4:16	YE		=.ACC.F02.K01.U2-X2:4	=.ACC.F02.K01.U2+&FS/8.4	
+&FS/4.9		=.ACC.F02.B01.BQ4-X4:19	GY		=.ACC.F02.K01.U2-X2:5	=.ACC.F02.K01.U2+&FS/8.5	
+&FS/4.2		=.ACC.F02.B01.BQ4-X4:3	PK		=.ACC.F02.K01.U2-X6:15	=.ACC.F02.K01.U2+&FS/17.7	
+&FS/4.3		=.ACC.F02.B01.BQ4-X4:4	BU		=.ACC.F02.K01.U2-X6:16	=.ACC.F02.K01.U2+&FS/17.7	
+&FS/4.1		=.ACC.F02.B01.BQ4-X4:1	RD		=.ACC.F02.K01.U2-X10:7	=.ACC.F02.K01.U2+&FS/24.4	
+&FS/4.2		=.ACC.F02.B01.BQ4-X4:2	BK		=.ACC.F02.K01.U2-X10:8	=.ACC.F02.K01.U2+&FS/24.4	
+&FS/4.4		=.ACC.F02.B01.BQ4-X4:6	VT		=.ACC.F02.K01.U2-X10:2	=.ACC.F02.K01.U2+&FS/30.2	
			GYPK				
			RDBU				
+&FS/4.9		-PE:PE	SH		=.ACC.F02.B01.BQ4-PE:PE	+&FS/4.9	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV	
Preliminary	A3	1	2	
SHEET	=ESS.ACC.F02.B01&MB/4			
NEXT	5			

Cable diagram

F09_003

No. of conductors
12

Cable type
UNITRONIC® LiHCH (TP)

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.B01+ESS.G04.100.7002-WD5

Function text	X-Ref	Target designation from			Target designation to	X-Ref	Function text
			WH		WH		
+&FS/5.4		=.ACC.F02.B01.BQ5-X5:7			=.ACC.F02.K01.U2-X2:6	=.ACC.F02.K01.U2+&FS/8.5	
+&FS/5.5		=.ACC.F02.B01.BQ5-X5:10	BN		=.ACC.F02.K01.U2-X2:7	=.ACC.F02.K01.U2+&FS/8.6	
+&FS/5.6		=.ACC.F02.B01.BQ5-X5:13	GN		=.ACC.F02.K01.U2-X2:8	=.ACC.F02.K01.U2+&FS/8.7	
+&FS/5.7		=.ACC.F02.B01.BQ5-X5:16	YE		=.ACC.F02.K01.U2-X2:9	=.ACC.F02.K01.U2+&FS/9.2	
+&FS/5.9		=.ACC.F02.B01.BQ5-X5:19	GY		=.ACC.F02.K01.U2-X2:10	=.ACC.F02.K01.U2+&FS/9.3	
+&FS/5.2		=.ACC.F02.B01.BQ5-X5:3	PK		=.ACC.F02.K01.U2-X7:3	=.ACC.F02.K01.U2+&FS/18.4	
+&FS/5.3		=.ACC.F02.B01.BQ5-X5:4	BU		=.ACC.F02.K01.U2-X7:4	=.ACC.F02.K01.U2+&FS/18.4	
+&FS/5.1		=.ACC.F02.B01.BQ5-X5:1	RD		=.ACC.F02.K01.U2-X10:9	=.ACC.F02.K01.U2+&FS/24.5	
+&FS/5.2		=.ACC.F02.B01.BQ5-X5:2	BK		=.ACC.F02.K01.U2-X10:10	=.ACC.F02.K01.U2+&FS/24.5	
+&FS/5.4		=.ACC.F02.B01.BQ5-X5:6	VT		=.ACC.F02.K01.U2-X10:2	=.ACC.F02.K01.U2+&FS/30.2	
			GYPK				
			RDBU				
+&FS/5.9		-PE:PE	SH		=.ACC.F02.B01.BQ5-PE:PE	+&FS/5.9	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.B01&MB/5		
NEXT	6		

Cable diagram

F09_003

No. of conductors
12

Cable type
UNITRONIC® LiHCH (TP)

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.B01+ESS.G04.100.7002-WD12

Function text	X-Ref	Target designation from			Target designation to	X-Ref	Function text
	+&FS/12.4	=.ACC.F02.B01.BQ12-X12:7	WH	WH	=.ACC.F02.K01.U2-X4:11	=.ACC.F02.K01.U2+&FS/13.3	
	+&FS/12.5	=.ACC.F02.B01.BQ12-X12:10	BN	BN	=.ACC.F02.K01.U2-X4:12	=.ACC.F02.K01.U2+&FS/13.4	
	+&FS/12.6	=.ACC.F02.B01.BQ12-X12:13	GN	GN	=.ACC.F02.K01.U2-X4:13	=.ACC.F02.K01.U2+&FS/13.5	
	+&FS/12.7	=.ACC.F02.B01.BQ12-X12:16	YE	YE	=.ACC.F02.K01.U2-X4:14	=.ACC.F02.K01.U2+&FS/13.5	
	+&FS/12.9	=.ACC.F02.B01.BQ12-X12:19	GY	GY	=.ACC.F02.K01.U2-X4:15	=.ACC.F02.K01.U2+&FS/13.6	
	+&FS/12.2	=.ACC.F02.B01.BQ12-X12:3	PK	PK	=.ACC.F02.K01.U2-X8:15	=.ACC.F02.K01.U2+&FS/21.7	
	+&FS/12.3	=.ACC.F02.B01.BQ12-X12:4	BU	BU	=.ACC.F02.K01.U2-X8:16	=.ACC.F02.K01.U2+&FS/21.7	
	+&FS/12.1	=.ACC.F02.B01.BQ12-X12:1	RD	RD	=.ACC.F02.K01.U2-X10:23	=.ACC.F02.K01.U2+&FS/25.4	
	+&FS/12.2	=.ACC.F02.B01.BQ12-X12:2	BK	BK	=.ACC.F02.K01.U2-X10:24	=.ACC.F02.K01.U2+&FS/25.4	
	+&FS/12.4	=.ACC.F02.B01.BQ12-X12:6	VT	VT	=.ACC.F02.K01.U2-X10:2	=.ACC.F02.K01.U2+&FS/30.2	
			GYPK	GYPK			
			RDBU	RDBU			
	+&FS/12.9	-PE:PE	SH	SH	=.ACC.F02.B01.BQ12-PE:PE	+&FS/12.9	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.B01&MB/6		
NEXT	7		

Cable diagram

F09_003

No. of conductors
12

Cable type
UNITRONIC® LiHCH (TP)

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.B01+ESS.G04.100.7001-WD6

Function text	X-Ref	Target designation from	Target designation to	X-Ref	Function text
	+&FS/6.3	F02.B01.BQ6+.G04.100.7002-X6:7	WH	=.ACC.F02.K01.U2+.G04.100.7002-X6:7	=.ACC.F02.K01.U2+&FS/9.3
	+&FS/6.5	F02.B01.BQ6+.G04.100.7002-X6:10	BN	=.ACC.F02.K01.U2+.G04.100.7002-X6:10	=.ACC.F02.K01.U2+&FS/9.4
	+&FS/6.6	F02.B01.BQ6+.G04.100.7002-X6:13	GN	=.ACC.F02.K01.U2+.G04.100.7002-X6:13	=.ACC.F02.K01.U2+&FS/9.5
	+&FS/6.7	F02.B01.BQ6+.G04.100.7002-X6:16	YE	=.ACC.F02.K01.U2+.G04.100.7002-X6:16	=.ACC.F02.K01.U2+&FS/9.5
	+&FS/6.9	F02.B01.BQ6+.G04.100.7002-X6:19	GY	=.ACC.F02.K01.U2+.G04.100.7002-X6:19	=.ACC.F02.K01.U2+&FS/9.6
	+&FS/6.2	F02.B01.BQ6+.G04.100.7002-X6:3	PK	=.ACC.F02.K01.U2+.G04.100.7002-X6:3	=.ACC.F02.K01.U2+&FS/18.7
	+&FS/6.3	F02.B01.BQ6+.G04.100.7002-X6:4	BU	=.ACC.F02.K01.U2+.G04.100.7002-X6:4	=.ACC.F02.K01.U2+&FS/18.7
	+&FS/6.1	F02.B01.BQ6+.G04.100.7002-X6:1	RD	=.ACC.F02.K01.U2+.G04.100.7002-X6:1	=.ACC.F02.K01.U2+&FS/24.5
	+&FS/6.2	F02.B01.BQ6+.G04.100.7002-X6:2	BK	=.ACC.F02.K01.U2+.G04.100.7002-X6:2	=.ACC.F02.K01.U2+&FS/24.6
	+&FS/6.3	F02.B01.BQ6+.G04.100.7002-X6:6	VT	=.ACC.F02.K01.U2+.G04.100.7002-X6:6	=.ACC.F02.K01.U2+&FS/30.2
			GYPK		
			RDBU		
+&FS/6.9		-PE:PE	SH	=.ACC.F02.B01.BQ6-PE:PE	+&FS/6.9

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV	
Preliminary	A3	1	2	
SHEET	=ESS.ACC.F02.B01&MB/7			
NEXT	8			

Cable diagram

F09_003

No. of conductors
12

Cable type
UNITRONIC® LiHCH (TP)

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.B01+ESS.G04.100.7001-WD7

Function text	X-Ref	Target designation from			Target designation to	X-Ref	Function text
	+&FS/7.3	=ACC.F02.B01.BQ7+.G04.100.7002-X7:7	WH		=ACC.F02.K01.U2+.G04.100.7002-X7:7	+&FS/10.2	=ACC.F02.K01.U2+&FS/10.2
	+&FS/7.5	=ACC.F02.B01.BQ7+.G04.100.7002-X7:10	BN		=ACC.F02.K01.U2+.G04.100.7002-X7:10	+&FS/10.3	=ACC.F02.K01.U2+&FS/10.3
	+&FS/7.6	=ACC.F02.B01.BQ7+.G04.100.7002-X7:13	GN		=ACC.F02.K01.U2+.G04.100.7002-X7:13	+&FS/10.3	=ACC.F02.K01.U2+&FS/10.3
	+&FS/7.7	=ACC.F02.B01.BQ7+.G04.100.7002-X7:16	YE		=ACC.F02.K01.U2+.G04.100.7002-X7:16	+&FS/10.4	=ACC.F02.K01.U2+&FS/10.4
	+&FS/7.9	=ACC.F02.B01.BQ7+.G04.100.7002-X7:19	GY		=ACC.F02.K01.U2+.G04.100.7002-X7:19	+&FS/10.5	=ACC.F02.K01.U2+&FS/10.5
	+&FS/7.3	=ACC.F02.B01.BQ7+.G04.100.7002-X7:3	PK		=ACC.F02.K01.U2+.G04.100.7002-X7:3	+&FS/19.4	=ACC.F02.K01.U2+&FS/19.4
	+&FS/7.4	=ACC.F02.B01.BQ7+.G04.100.7002-X7:4	BU		=ACC.F02.K01.U2+.G04.100.7002-X7:4	+&FS/19.4	=ACC.F02.K01.U2+&FS/19.4
	+&FS/7.1	=ACC.F02.B01.BQ7+.G04.100.7002-X7:1	RD		=ACC.F02.K01.U2+.G04.100.7002-X7:1	+&FS/24.6	=ACC.F02.K01.U2+&FS/24.6
	+&FS/7.2	=ACC.F02.B01.BQ7+.G04.100.7002-X7:2	BK		=ACC.F02.K01.U2+.G04.100.7002-X7:2	+&FS/24.6	=ACC.F02.K01.U2+&FS/24.6
	+&FS/7.6	=ACC.F02.B01.BQ7+.G04.100.7002-X7:6	VT		=ACC.F02.K01.U2+.G04.100.7002-X7:6	+&FS/30.2	=ACC.F02.K01.U2+&FS/30.2
			GYPK				
			RDBU				
	+&FS/7.9	-PE:PE	SH		=ACC.F02.B01.BQ7-PE:PE	+&FS/7.9	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.B01&MB/8							
NEXT 9							

Cable diagram

F09_003

No. of conductors
12

Cable type
UNITRONIC® LiHCH (TP)

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.B01+ESS.G04.100.7001-WD8

Function text	X-Ref	Target designation from			Target designation to	X-Ref	Function text
	+&FS/8.9	-PE:PE	WH	WH	=.ACC.F02.K01.U2+.G04.100.7002-X8:7	+&FS/10.5	=.ACC.F02.K01.U2+&FS/10.5
			BN	BN	=.ACC.F02.K01.U2+.G04.100.7002-X8:10	+&FS/10.6	=.ACC.F02.K01.U2+&FS/10.6
			GN	GN	=.ACC.F02.K01.U2+.G04.100.7002-X8:13	+&FS/10.7	=.ACC.F02.K01.U2+&FS/10.7
			YE	YE	=.ACC.F02.K01.U2+.G04.100.7002-X8:16	+&FS/11.2	=.ACC.F02.K01.U2+&FS/11.2
			GY	GY	=.ACC.F02.K01.U2+.G04.100.7002-X8:19	+&FS/11.3	=.ACC.F02.K01.U2+&FS/11.3
			PK	PK	=.ACC.F02.K01.U2+.G04.100.7002-X8:3	+&FS/19.7	=.ACC.F02.K01.U2+&FS/19.7
			BU	BU	=.ACC.F02.K01.U2+.G04.100.7002-X8:4	+&FS/19.7	=.ACC.F02.K01.U2+&FS/19.7
			RD	RD	=.ACC.F02.K01.U2+.G04.100.7002-X8:1	+&FS/24.7	=.ACC.F02.K01.U2+&FS/24.7
			BK	BK	=.ACC.F02.K01.U2+.G04.100.7002-X8:2	+&FS/24.7	=.ACC.F02.K01.U2+&FS/24.7
			VT	VT	=.ACC.F02.K01.U2+.G04.100.7002-X8:6	+&FS/30.2	=.ACC.F02.K01.U2+&FS/30.2
			GYPK	GYPK			
			RDBU	RDBU			
			SH	SH	=.ACC.F02.B01.BQ8-PE:PE	+&FS/8.9	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.B01&MB/9							
NEXT 10							

Cable diagram

F09_003

No. of conductors
12

Cable type
UNITRONIC® LiHCH (TP)

Cross-section
mm²

Length

=ESS.ACC.F02.B01+ESS.G04.100.7001-WD9

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/9.9
=ESS.ACC.F02.B01.BQ9+.G04.100.7002-X9:7

WH

WH

=.ACC.F02.K01.U2+.G04.100.7002-X9:7
=ACC.F02.K01.U2+&FS/11.3

+&FS/9.9
=ESS.ACC.F02.B01.BQ9+.G04.100.7002-X9:10

BN

BN

=.ACC.F02.K01.U2+.G04.100.7002-X9:10
=ACC.F02.K01.U2+&FS/11.4

+&FS/9.9
=ESS.ACC.F02.B01.BQ9+.G04.100.7002-X9:13

GN

GN

=.ACC.F02.K01.U2+.G04.100.7002-X9:13
=ACC.F02.K01.U2+&FS/11.5

+&FS/9.9
=ESS.ACC.F02.B01.BQ9+.G04.100.7002-X9:16

YE

YE

=.ACC.F02.K01.U2+.G04.100.7002-X9:16
=ACC.F02.K01.U2+&FS/11.5

+&FS/9.9
=ESS.ACC.F02.B01.BQ9+.G04.100.7002-X9:19

GY

GY

=.ACC.F02.K01.U2+.G04.100.7002-X9:19
=ACC.F02.K01.U2+&FS/11.6

+&FS/9.9
=ESS.ACC.F02.B01.BQ9+.G04.100.7002-X9:3

PK

PK

=.ACC.F02.K01.U2+.G04.100.7002-X9:3
=ACC.F02.K01.U2+&FS/20.4

+&FS/9.9
=ESS.ACC.F02.B01.BQ9+.G04.100.7002-X9:4

BU

BU

=.ACC.F02.K01.U2+.G04.100.7002-X9:4
=ACC.F02.K01.U2+&FS/20.4

+&FS/9.9
=ESS.ACC.F02.B01.BQ9+.G04.100.7002-X9:1

RD

RD

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=ACC.F02.K01.U2+&FS/25.2

+&FS/9.9
=ESS.ACC.F02.B01.BQ9+.G04.100.7002-X9:2

BK

BK

=.ACC.F02.K01.U2+.G04.100.7002-X9:2
=ACC.F02.K01.U2+&FS/25.2

+&FS/9.9
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VT

VT

=.ACC.F02.K01.U2+.G04.100.7002-X9:6
=ACC.F02.K01.U2+&FS/30.2

+&FS/9.9

-PE:PE

SH

SH

=.ACC.F02.B01.BQ9-PE:PE

+&FS/9.9

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY
MM & ATD

CHECKED BY
MM

APPROVED BY
SLB

DATE
2017-09-01

DATE
01-Sep-17

DESIGN SITE
ESS

DRAWING TITLE
Accelerator ODH Detection System

PAGE TYPE
Cable diagram

FUNCTION

DRAWING NUMBER (Doc) ESS-0089356			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
SHEET =ESS.ACC.F02.B01&MB/10			
NEXT 11			

Cable diagram

F09_003

No. of conductors
12

Cable type
UNITRONIC® LiHCH (TP)

Cross-section
mm²

Function text

Length

=ESS.ACC.F02.B01+ESS.G04.100.7004-WD10

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/10.9
+&ACC.F02.K01.U2+.G04.100.7002-X10:7

+&ACC.F02.K01.U2+.G04.100.7002-X10:10

+&ACC.F02.K01.U2+.G04.100.7002-X10:13

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+&FS/10.9
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+&FS/10.9
+&ACC.F02.K01.U2+.G04.100.7002-X10:4

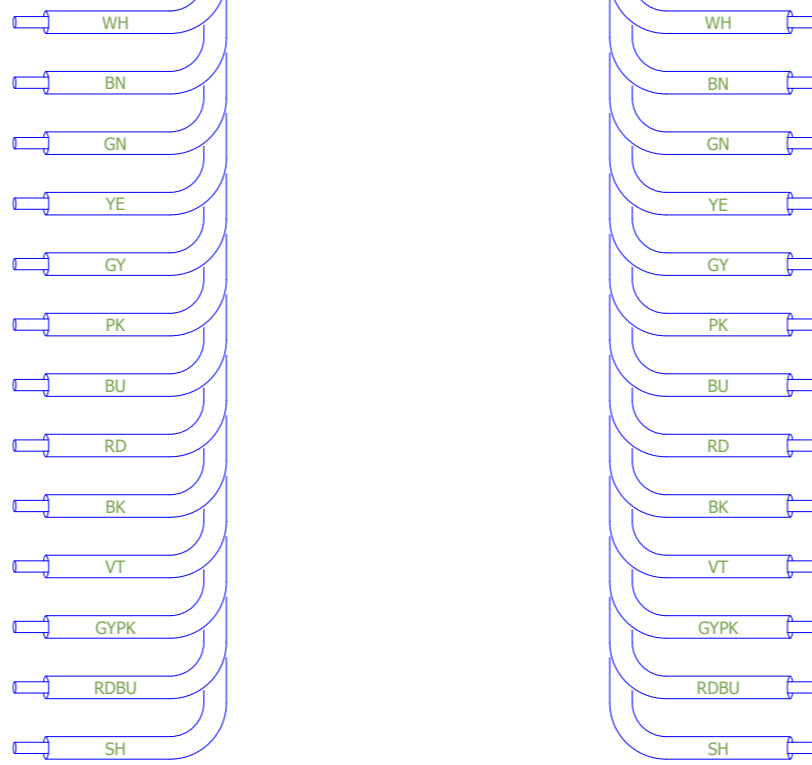
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+&FS/10.9
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+&FS/10.9

-PE:PE



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=.ACC.F02.K01.U2+.G04.100.7002-X10:13
+&ACC.F02.K01.U2+&FS/12.3

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+&ACC.F02.K01.U2+.G04.100.7002-X10:3
+&ACC.F02.K01.U2+&FS/20.7

+&ACC.F02.K01.U2+.G04.100.7002-X10:4
+&ACC.F02.K01.U2+&FS/20.7

+&ACC.F02.K01.U2+.G04.100.7002-X10:1
+&ACC.F02.K01.U2+&FS/25.3

+&ACC.F02.K01.U2+.G04.100.7002-X10:2
+&ACC.F02.K01.U2+&FS/25.3

+&ACC.F02.K01.U2+.G04.100.7002-X10:6
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+&FS/10.9

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)
MM & ATD	2017-09-01	Accelerator ODH Detection System	ESS-0089356
CHECKED BY	DATE	PAGE TYPE	LIFECYCLE LABEL
MM		Cable diagram	Preliminary
APPROVED BY	DATE	FUNCTION	PAGE SIZE
SLB	01-Sep-17		A3
DESIGN SITE	ESS	REVISION	PAGE SCALE
			1
			REV
			2
			NEXT
			12

Cable diagram

F09_003

No. of conductors
12

Cable type
UNITRONIC® LiHCH (TP)

Cross-section
mm²

Function text

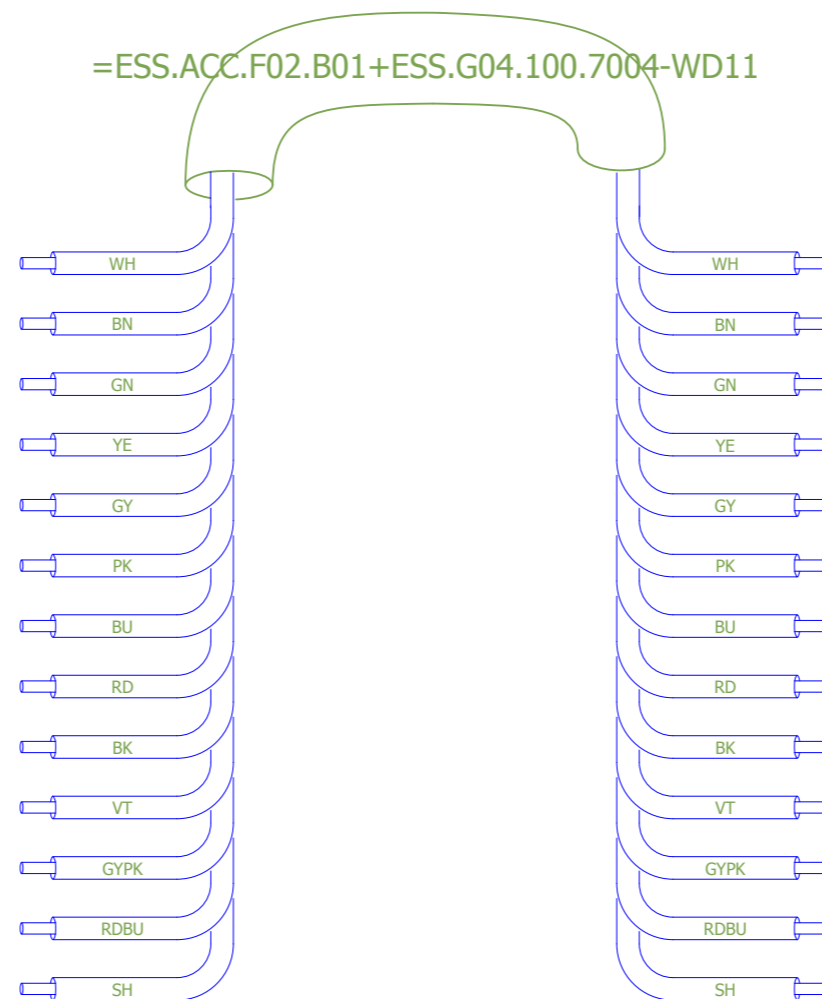
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Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

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+&FS/11.10

+&FS/11.13

+&FS/11.16

+&FS/11.19

+&FS/11.3

+&FS/11.4

+&FS/11.1

+&FS/11.2

+&FS/11.6

WH

BN

GN

YE

GY

PK

BU

RD

BK

VT

GYPK

RDBU

RDBU

SH

WH

BN

GN

YE

GY

PK

BU

RD

BK

VT

GYPK

RDBU

RDBU

SH

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+&FS/11.9

=.ACC.F02.B01.BQ11-PE:PE

+&FS/11.9

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE		Accelerator ODH Detection System		
PAGE TYPE		Cable diagram		
FUNCTION				

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.B01&MB/12							
NEXT 13							

Cable diagram

F09_003

No. of conductors
12

Cable type
UNITRONIC® LiHCH (TP)

Cross-section
mm²

Length

=ESS.ACC.F02.B01+ESS.G02.100.2002-WD13

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/13.9

+&FS/13.9

+&FS/13.9

+&FS/13.9

+&FS/13.9

+&FS/13.9

+&FS/13.9

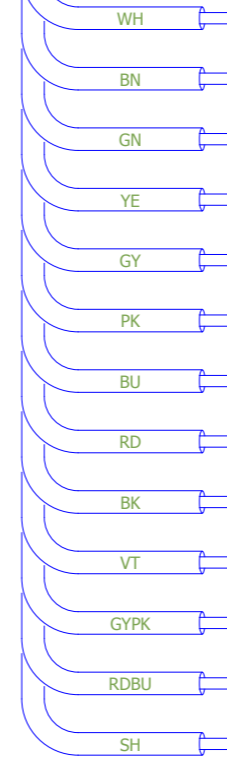
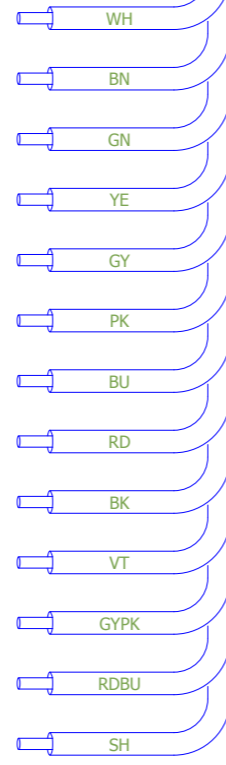
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+&FS/13.9

+&FS/13.9

+&FS/13.9

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+&FS/13.9

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.B01&MB/13							
NEXT 14							

Cable diagram

F09_003

No. of conductors
12

Cable type
UNITRONIC® LiHCH (TP)

Cross-section
mm²

Length

=ESS.ACC.F02.B01+ESS.G02.100.2002-WD14

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/14.9
=ESS.ACC.F02.B01.BQ14+.G04.100.7002-X14:7

WH

WH

=.ACC.F02.K01.U3-X1:6

=.ACC.F02.K01.U3+&FS/6.5

+&FS/14.9
=ESS.ACC.F02.B01.BQ14+.G04.100.7002-X14:10

BN

BN

=.ACC.F02.K01.U3-X1:7

=.ACC.F02.K01.U3+&FS/6.6

+&FS/14.9
=ESS.ACC.F02.B01.BQ14+.G04.100.7002-X14:13

GN

GN

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=.ACC.F02.K01.U3+&FS/6.7

+&FS/14.9
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YE

YE

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=.ACC.F02.K01.U3+&FS/7.2

+&FS/14.9
=ESS.ACC.F02.B01.BQ14+.G04.100.7002-X14:19

GY

GY

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=.ACC.F02.K01.U3+&FS/7.3

+&FS/14.9
=ESS.ACC.F02.B01.BQ14+.G04.100.7002-X14:3

PK

PK

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=.ACC.F02.K01.U3+&FS/16.7

+&FS/14.9
=ESS.ACC.F02.B01.BQ14+.G04.100.7002-X14:4

BU

BU

=.ACC.F02.K01.U3-X6:8

=.ACC.F02.K01.U3+&FS/16.7

+&FS/14.9
=ESS.ACC.F02.B01.BQ14+.G04.100.7002-X14:1

RD

RD

=.ACC.F02.K01.U3-X10:3

=.ACC.F02.K01.U3+&FS/24.3

+&FS/14.9
=ESS.ACC.F02.B01.BQ14+.G04.100.7002-X14:2

BK

BK

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+&FS/14.9
=ESS.ACC.F02.B01.BQ14+.G04.100.7002-X14:6

VT

VT

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=.ACC.F02.K01.U3+&FS/30.2

+&FS/14.9

-PE:PE

SH

SH

=.ACC.F02.B01.BQ14-PE:PE

+&FS/14.9

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.B01&MB/14		
NEXT	15		

Cable diagram

F09_003

No. of conductors
12

Cable type
UNITRONIC® LiHCH (TP)

Cross-section
mm²

Length

=ESS.ACC.F02.B01+ESS.G02.100.2002-WD15

Function text	X-Ref	Target designation from			Target designation to	X-Ref	Function text
	+&FS/15.9	-PE:PE	WH		=.ACC.F02.K01.U3-X1:11	=.ACC.F02.K01.U3+&FS/7.3	
			BN		=.ACC.F02.K01.U3-X1:12	=.ACC.F02.K01.U3+&FS/7.4	
			GN		=.ACC.F02.K01.U3-X1:13	=.ACC.F02.K01.U3+&FS/7.5	
			YE		=.ACC.F02.K01.U3-X1:14	=.ACC.F02.K01.U3+&FS/7.5	
			GY		=.ACC.F02.K01.U3-X1:15	=.ACC.F02.K01.U3+&FS/7.6	
			PK		=.ACC.F02.K01.U3-X6:11	=.ACC.F02.K01.U3+&FS/17.4	
			BU		=.ACC.F02.K01.U3-X6:12	=.ACC.F02.K01.U3+&FS/17.4	
			RD		=.ACC.F02.K01.U3-X10:5	=.ACC.F02.K01.U3+&FS/24.3	
			BK		=.ACC.F02.K01.U3-X10:6	=.ACC.F02.K01.U3+&FS/24.4	
			VT		=.ACC.F02.K01.U3-X10:2	=.ACC.F02.K01.U3+&FS/30.2	
			GYPK				
			RDBU				
			SH		=.ACC.F02.B01.BQ15-PE:PE	+&FS/15.9	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY MM & ATD	DATE 2017-09-01
CHECKED BY MM	DATE
APPROVED BY SLB	DATE 01-Sep-17
DESIGN SITE ESS	

DRAWING TITLE Accelerator ODH Detection System
PAGE TYPE Cable diagram
FUNCTION

DRAWING NUMBER (Doc) ESS-0089356	PAGE SIZE A3	PAGE SCALE 1	REV 2
LIFECYCLE LABEL Preliminary	SHEET =ESS.ACC.F02.B01&MB/15		
NEXT 16			

Cable diagram

F09_003

No. of conductors
12

Cable type
UNITRONIC® LiHCH (TP)

Cross-section
mm²

Length

=ESS.ACC.F02.B01+ESS.G02.100.2002-WD16

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/16.9

+&FS/16.9

+&FS/16.9

+&FS/16.9

+&FS/16.9

+&FS/16.9

+&FS/16.9

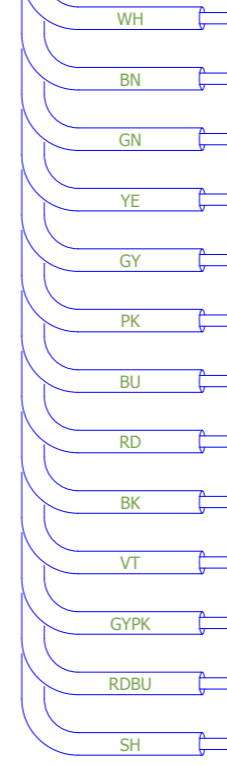
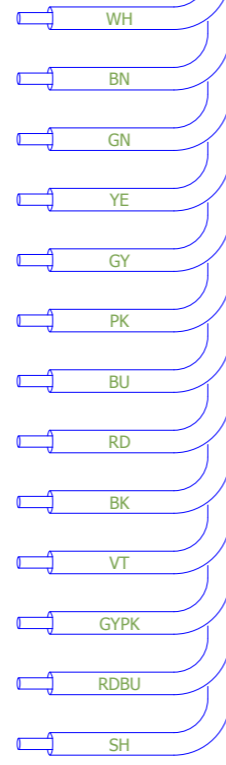
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+&FS/16.9

+&FS/16.9

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+&FS/16.9

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV	
Preliminary	A3	1	2	
SHEET	=ESS.ACC.F02.B01&MB/16			
NEXT	17			

Cable diagram

F09_003

No. of conductors
12

Cable type
UNITRONIC® LiHCH (TP)

Cross-section
mm²

Length

=ESS.ACC.F02.B01+ESS.G02.100.2002-WD17

Function text	X-Ref	Target designation from			Target designation to	X-Ref	Function text
	+&FS/17.9	-PE:PE	SH	SH	=.ACC.F02.B01.BQ17-PE:PE	+&FS/17.9	
	+&FS/17.10		WH	WH	=.ACC.F02.K01.U3-X2:6	=.ACC.F02.K01.U3+&FS/8.5	
	+&FS/17.11		BN	BN	=.ACC.F02.K01.U3-X2:7	=.ACC.F02.K01.U3+&FS/8.6	
	+&FS/17.12		GN	GN	=.ACC.F02.K01.U3-X2:8	=.ACC.F02.K01.U3+&FS/8.7	
	+&FS/17.13		YE	YE	=.ACC.F02.K01.U3-X2:9	=.ACC.F02.K01.U3+&FS/9.2	
	+&FS/17.14		GY	GY	=.ACC.F02.K01.U3-X2:10	=.ACC.F02.K01.U3+&FS/9.3	
	+&FS/17.15		PK	PK	=.ACC.F02.K01.U3-X7:3	=.ACC.F02.K01.U3+&FS/18.4	
	+&FS/17.16		BU	BU	=.ACC.F02.K01.U3-X7:4	=.ACC.F02.K01.U3+&FS/18.4	
	+&FS/17.17		RD	RD	=.ACC.F02.K01.U3-X10:9	=.ACC.F02.K01.U3+&FS/24.5	
	+&FS/17.18		BK	BK	=.ACC.F02.K01.U3-X10:10	=.ACC.F02.K01.U3+&FS/24.5	
	+&FS/17.19		VT	VT	=.ACC.F02.K01.U3-X10:2	=.ACC.F02.K01.U3+&FS/30.2	
			GYPK	GYPK			
			RDBU	RDBU			

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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DRAWN BY MM & ATD	DATE 2017-09-01
CHECKED BY MM	DATE
APPROVED BY SLB	DATE 01-Sep-17
DESIGN SITE ESS	

DRAWING TITLE Accelerator ODH Detection System
PAGE TYPE Cable diagram
FUNCTION

DRAWING NUMBER (Doc) ESS-0089356	LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
SHEET =ESS.ACC.F02.B01&MB/17		NEXT 18		

Cable diagram

F09_003

No. of conductors
12

Cable type
UNITRONIC® LiHCH (TP)

Cross-section
mm²

Length

=ESS.ACC.F02.B01+ESS.G02.100.2002-WD18

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

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+&FS/18.9
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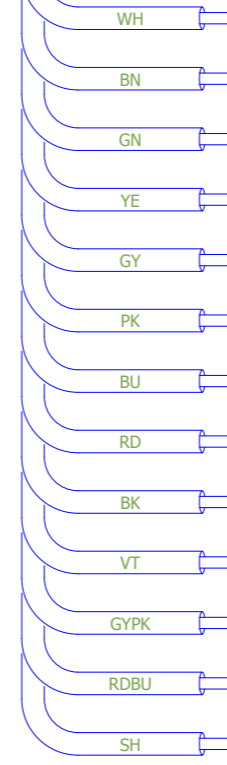
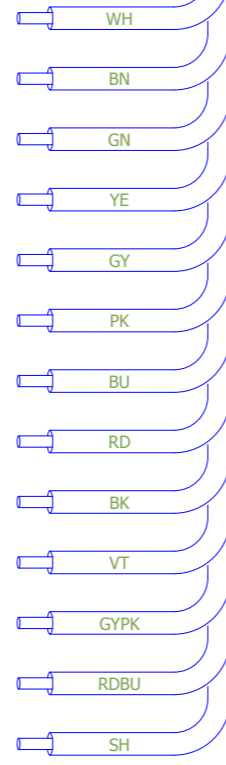
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+&FS/18.9
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+&FS/18.9



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+&FS/18.9

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.B01&MB/18		
NEXT	19		

Cable diagram

F09_003

No. of conductors
12

Cable type
UNITRONIC® LiHCH (TP)

Cross-section
mm²

Length

=ESS.ACC.F02.B01+ESS.G02.100.2002-WD19

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/19.9

+&FS/19.9

+&FS/19.9

+&FS/19.9

+&FS/19.9

+&FS/19.9

+&FS/19.9

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+&FS/19.9

+&FS/19.9

+&FS/19.9

-PE:PE

WH

BN

GN

YE

GY

PK

BU

RD

BK

VT

GYPK

RDBU

SH

WH

BN

GN

YE

GY

PK

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RD

BK

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SH

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+&FS/19.9

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.B01&MB/19							
NEXT 20							

Cable diagram

F09_003

No. of conductors
12

Cable type
UNITRONIC® LiHCH (TP)

Cross-section
mm²

Length

=ESS.ACC.F02.B01+ESS.G04.090.7002-WD20

Function text

X-Ref

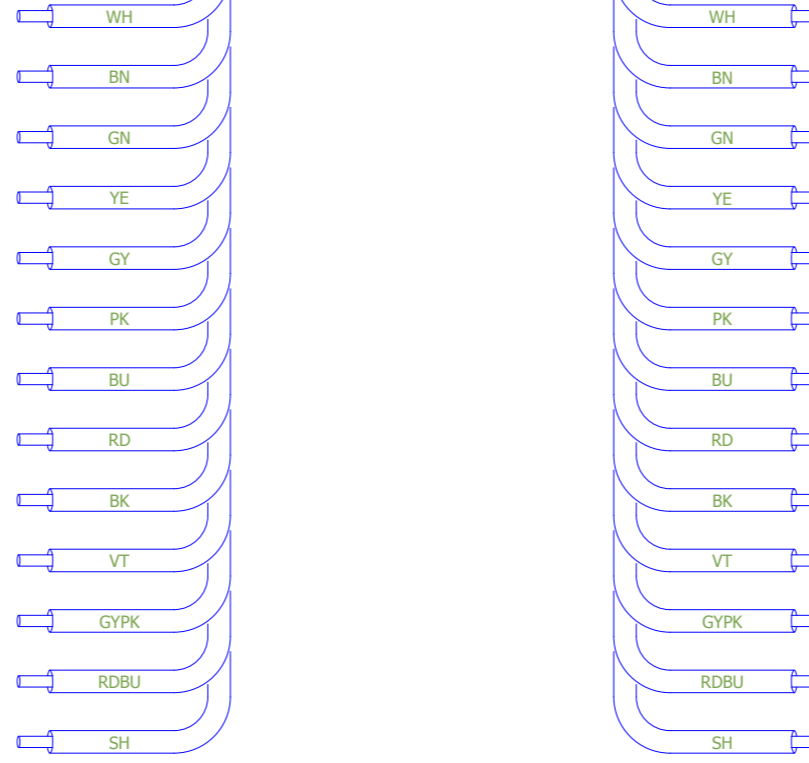
Target designation from

Target designation to

X-Ref

Function text

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+&FS/20.10
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+&FS/20.1
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+&FS/20.9



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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.B01&MB/20		
NEXT	21		

Cable diagram

F09_003

No. of conductors
12

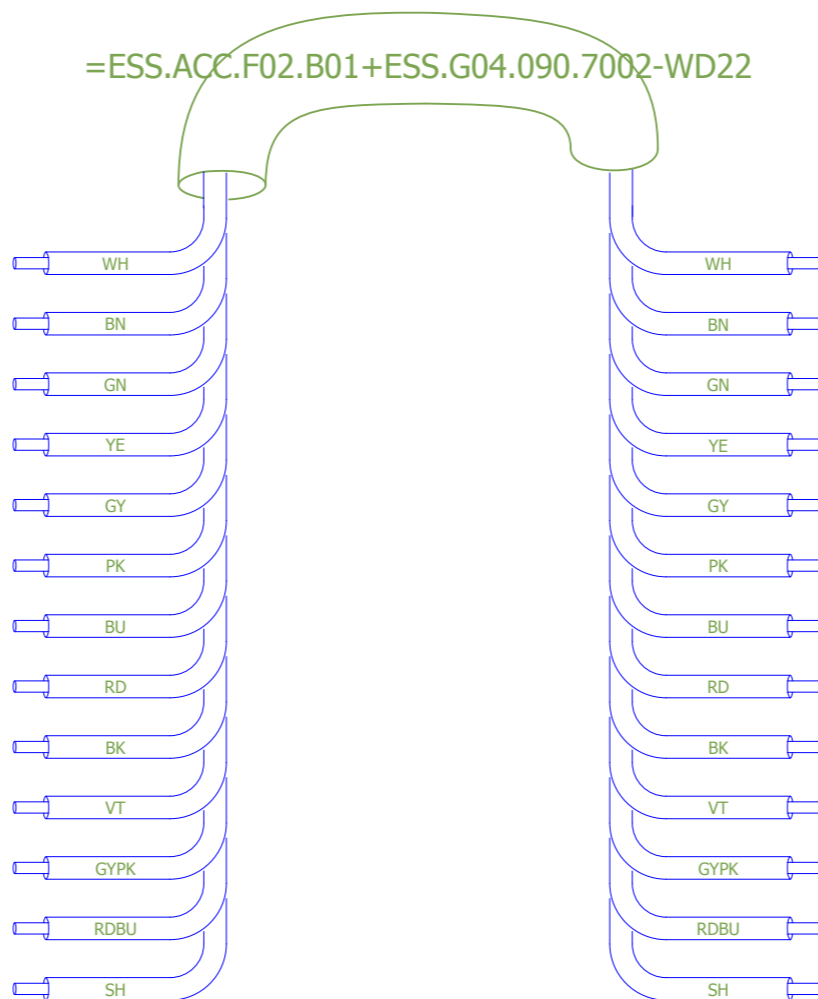
Cable type
UNITRONIC® LiHCH (TP)

Cross-section
mm²

Length

=ESS.ACC.F02.B01+ESS.G04.090.7002-WD22

Function text	X-Ref	Target designation from	Target designation to	X-Ref	Function text
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	+&FS/22.5	+ESS.ACC.F02.B01.BQ22+.G04.100.7002-X22:10			=.ACC.F02.K01.U3+.G02.100.2002+ACC.F02.K01.U3+&FS/12.3
	+&FS/22.6	+ESS.ACC.F02.B01.BQ22+.G04.100.7002-X22:13			=.ACC.F02.K01.U3+.G02.100.2002+ACC.F02.K01.U3+&FS/12.3
	+&FS/22.7	+ESS.ACC.F02.B01.BQ22+.G04.100.7002-X22:16			=.ACC.F02.K01.U3+.G02.100.2002+ACC.F02.K01.U3+&FS/12.4
	+&FS/22.8	+ESS.ACC.F02.B01.BQ22+.G04.100.7002-X22:19			=.ACC.F02.K01.U3+.G02.100.2002+ACC.F02.K01.U3+&FS/12.5
	+&FS/22.9	+ESS.ACC.F02.B01.BQ22+.G04.100.7002-X22:3			=.ACC.F02.K01.U3+.G02.100.2002+ACC.F02.K01.U3+&FS/20.7
	+&FS/22.9	+ESS.ACC.F02.B01.BQ22+.G04.100.7002-X22:4			=.ACC.F02.K01.U3+.G02.100.2002+ACC.F02.K01.U3+&FS/20.7
	+&FS/22.9	+ESS.ACC.F02.B01.BQ22+.G04.100.7002-X22:1			=.ACC.F02.K01.U3+.G02.100.2002+ACC.F02.K01.U3+&FS/25.3
	+&FS/22.9	+ESS.ACC.F02.B01.BQ22+.G04.100.7002-X22:2			=.ACC.F02.K01.U3+.G02.100.2002+ACC.F02.K01.U3+&FS/25.3
	+&FS/22.9	+ESS.ACC.F02.B01.BQ22+.G04.100.7002-X22:6			=.ACC.F02.K01.U3+.G02.100.2002+ACC.F02.K01.U3+&FS/30.2
	+&FS/22.9	-PE:PE			=.ACC.F02.B01.BQ22-PE:PE +&FS/22.9



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small>	DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		CHECKED BY	DATE	PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		APPROVED BY	DATE	FUNCTION	SHEET	=ESS.ACC.F02.B01&MB/22		
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		DESIGN SITE	DATE		NEXT	&PC/1		

Parts list

ESS_Parts_list_ver2-2017

FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.B01 +ESS.G02.100.2002-WD13 82C003740	1	UNITRONIC LiHCH (TP) 6x2x0,5	UNITRONIC® LiHCH (TP)	LAPP	LAPP.0038606	
=ESS.ACC.F02.B01 +ESS.G02.100.2002-WD14 82C003741	1	UNITRONIC LiHCH (TP) 6x2x0,5	UNITRONIC® LiHCH (TP)	LAPP	LAPP.0038606	
=ESS.ACC.F02.B01 +ESS.G02.100.2002-WD15 82C003742	1	UNITRONIC LiHCH (TP) 6x2x0,5	UNITRONIC® LiHCH (TP)	LAPP	LAPP.0038606	
=ESS.ACC.F02.B01 +ESS.G02.100.2002-WD16 82C003743	1	UNITRONIC LiHCH (TP) 6x2x0,5	UNITRONIC® LiHCH (TP)	LAPP	LAPP.0038606	
=ESS.ACC.F02.B01 +ESS.G02.100.2002-WD17 82C003744	1	UNITRONIC LiHCH (TP) 6x2x0,5	UNITRONIC® LiHCH (TP)	LAPP	LAPP.0038606	
=ESS.ACC.F02.B01 +ESS.G02.100.2002-WD18 82C003745	1	UNITRONIC LiHCH (TP) 6x2x0,5	UNITRONIC® LiHCH (TP)	LAPP	LAPP.0038606	
=ESS.ACC.F02.B01 +ESS.G02.100.2002-WD19 82C003746	1	UNITRONIC LiHCH (TP) 6x2x0,5	UNITRONIC® LiHCH (TP)	LAPP	LAPP.0038606	
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=ESS.ACC.F02.B01 +ESS.G04.100.7001-WD7 82C003734	1	UNITRONIC LiHCH (TP) 6x2x0,5	UNITRONIC® LiHCH (TP)	LAPP	LAPP.0038606	
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=ESS.ACC.F02.B01 +ESS.G04.100.7001-WD9 82C003736	1	UNITRONIC LiHCH (TP) 6x2x0,5	UNITRONIC® LiHCH (TP)	LAPP	LAPP.0038606	
=ESS.ACC.F02.B01 +ESS.G04.100.7002-WD1 82C003728	1	UNITRONIC LiHCH (TP) 6x2x0,5	UNITRONIC® LiHCH (TP)	LAPP	LAPP.0038606	
=ESS.ACC.F02.B01 +ESS.G04.100.7002-WD2 82C003729	1	UNITRONIC LiHCH (TP) 6x2x0,5	UNITRONIC® LiHCH (TP)	LAPP	LAPP.0038606	
=ESS.ACC.F02.B01 +ESS.G04.100.7002-WD3 82C003730	1	UNITRONIC LiHCH (TP) 6x2x0,5	UNITRONIC® LiHCH (TP)	LAPP	LAPP.0038606	
=ESS.ACC.F02.B01 +ESS.G04.100.7002-WD4 82C003731	1	UNITRONIC LiHCH (TP) 6x2x0,5	UNITRONIC® LiHCH (TP)	LAPP	LAPP.0038606	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD		2017-09-01	Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY		DATE	PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				MM			Parts list	Preliminary	A3	1	2
				APPROVED BY		DATE	FUNCTION	SHEET =ESS.ACC.F02.B01&PC/1			
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	SLB		01-Sep-17		NEXT 1.1			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE		ESS					



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.B01 +ESS.G04.100.7002-WD5 82C003732	1	UNITRONIC LiHCH (TP) 6x2x0,5	UNITRONIC® LiHCH (TP)	LAPP	LAPP.0038606	
=ESS.ACC.F02.B01 +ESS.G04.100.7002-WD12 82C003739	1	UNITRONIC LiHCH (TP) 6x2x0,5	UNITRONIC® LiHCH (TP)	LAPP	LAPP.0038606	
=ESS.ACC.F02.B01 +ESS.G04.100.7004-WD10 82C003737	1	UNITRONIC LiHCH (TP) 6x2x0,5	UNITRONIC® LiHCH (TP)	LAPP	LAPP.0038606	
=ESS.ACC.F02.B01 +ESS.G04.100.7004-WD11 82C003738	1	UNITRONIC LiHCH (TP) 6x2x0,5	UNITRONIC® LiHCH (TP)	LAPP	LAPP.0038606	
=ESS.ACC.F02.B01.BQ1 +ESS.G04.100.7002- HCB-ACH:ODH-O2iM-1	1	Oxygen Deficiency Detector			07-0180	
=ESS.ACC.F02.B01.BQ2 +ESS.G04.100.7002- HCB-ACH:ODH-O2iM-2	1	Oxygen Deficiency Detector			07-0180	
=ESS.ACC.F02.B01.BQ2 +ESS.G04.100.7002-X23.1	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.B01.BQ3 +ESS.G04.100.7002- HCB-ACH:ODH-O2iM-3	1	Oxygen Deficiency Detector			07-0180	
=ESS.ACC.F02.B01.BQ4 +ESS.G04.100.7002- HCB-ACH:ODH-O2iM-4	1	Oxygen Deficiency Detector			07-0180	
=ESS.ACC.F02.B01.BQ5 +ESS.G04.100.7002- HCB-ACH:ODH-O2iM-5	1	Oxygen Deficiency Detector			07-0180	
=ESS.ACC.F02.B01.BQ6 +ESS.G04.100.7001- HCB-TCH:ODH-O2iM-6	1	Oxygen Deficiency Detector			07-0180	
=ESS.ACC.F02.B01.BQ7 +ESS.G04.100.7001- HCB-TCH:ODH-O2iM-7	1	Oxygen Deficiency Detector			07-0180	
=ESS.ACC.F02.B01.BQ8 +ESS.G04.100.7001- HCB-TCH:ODH-O2iM-8	1	Oxygen Deficiency Detector			07-0180	
=ESS.ACC.F02.B01.BQ9 +ESS.G04.100.7001- HCB-TCH:ODH-O2iM-9	1	Oxygen Deficiency Detector			07-0180	
=ESS.ACC.F02.B01.BQ10 +ESS.G04.100.7004- HCB-HPGS:ODH-O2iM-10	1	Oxygen Deficiency Detector			07-0180	
=ESS.ACC.F02.B01.BQ11 +ESS.G04.100.7004- HCB-HPGS:ODH-O2iM-11	1	Oxygen Deficiency Detector			07-0180	
=ESS.ACC.F02.B01.BQ12 +ESS.G04.100.7002- HCB-DogSh:ODH-O2iM-12	1	Oxygen Deficiency Detector			07-0180	
=ESS.ACC.F02.B01.BQ13 +ESS.G02.100.2002- CXB-CXH:ODH-O2iM-13	1	Oxygen Deficiency Detector			07-0180	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWING TITLE		DRAWING NUMBER (Doc)	
				MM & ATD	2017-09-01	Accelerator ODH Detection System	ESS-0089356
				CHECKED BY MM		PAGE TYPE Parts list	LIFECYCLE LABEL Preliminary
				APPROVED BY SLB	01-Sep-17	FUNCTION	PAGE SIZE A3
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	DESIGN SITE ESS			PAGE SCALE 1
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.				REV 2
							SHEET =ESS.ACC.F02.B01&PC/1.1
							NEXT 1.2



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.B01.BQ14 +ESS.G02.100.2002- CXB-CXH:ODH-O2iM-14	1	Oxygen Deficiency Detector			07-0180	
=ESS.ACC.F02.B01.BQ15 +ESS.G02.100.2002- CXB-CXH:ODH-O2iM-15	1	Oxygen Deficiency Detector			07-0180	
=ESS.ACC.F02.B01.BQ16 +ESS.G02.100.2002- CXB-CXH:ODH-O2iM-16	1	Oxygen Deficiency Detector			07-0180	
=ESS.ACC.F02.B01.BQ17 +ESS.G02.100.2002- CXB-CXH:ODH-O2iM-17	1	Oxygen Deficiency Detector			07-0180	
=ESS.ACC.F02.B01.BQ18 +ESS.G02.100.2002- CXB-CXH:ODH-O2iM-18	1	Oxygen Deficiency Detector			07-0180	
=ESS.ACC.F02.B01.BQ19 +ESS.G02.100.2002- CXB-CXH:ODH-O2iM-19	1	Oxygen Deficiency Detector			07-0180	
=ESS.ACC.F02.B01.BQ20 +ESS.G04.090.7002- HCB-ACH:ODH-O2iM-20	1	Oxygen Deficiency Detector			07-0180	
=ESS.ACC.F02.B01.BQ21 +ESS.G04.090.7002- CTLG-CS:ODH-O2iM-21	1	Oxygen Deficiency Detector			07-0180	
=ESS.ACC.F02.B01.BQ22 +ESS.G04.090.7002- CTLG-CS:ODH-O2iM-22	1	Oxygen Deficiency Detector			07-0180	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small>	DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
					MM & ATD		Accelerator ODH Detection System	ESS-0089356			
					CHECKED BY		PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
					MM		Parts list	Preliminary	A3	1	2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY	DATE	FUNCTION	SHEET =ESS.ACC.F02.B01&PC/1.2				
				SLB	01-Sep-17		NEXT =.ACC.F02.K01/1				
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE							
				ESS							

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U1 -FB1	1	RCCB TYPE AC 16/2 30MA 2MW	5SV4311-0	Siemens	SIE.5SV4311-0	
=ESS.ACC.F02.K01.U1 -FC1	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 16A	5SL6516-7	Siemens	SIE.5SL6516-7	
=ESS.ACC.F02.K01.U1 -FC2	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 10A	5SL6510-7	Siemens	SIE.5SL6510-7	
=ESS.ACC.F02.K01.U1 -FC3	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U1 -FC4	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U1 -FC5	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U1 -FC6	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U1 -FC7	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U1 -FC8	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U1 -FC9	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U1 -FC10	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U1 -FC11	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U1 -FC12	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U1 -FC13	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U1 -FC14	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U1 -FC15	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U1 -FC16	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U1 -FC17	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY			PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				MM			Parts list	Preliminary	A3	1	2
				APPROVED BY			FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1			
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	SLB		01-Sep-17		NEXT 1.1			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE		ESS					

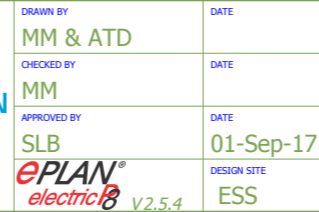


Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U1 -FC18	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U1 -GB1	1	SITOP UPS1100	6EP4135-0GB00-0AY0	Siemens	SIE.6EP4135-0GB00-0AY0	
=ESS.ACC.F02.K01.U1 -K1	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 -K2	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 -K3	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 -K4	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 -K5	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 -K6	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 -K7	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 -K8	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 -K9	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 -K10	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 -K11	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 -K12	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 -K13	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 -K14	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 -K15	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 -K16	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY MM			PAGE TYPE Parts list	LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY SLB		01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.1			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE ESS				NEXT 1.2			



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U1 -K18	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 -K19	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 -K20	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 -K21	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 -K22	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 -K23	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 -K24	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 -K25	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 -K26	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 -K27	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 -K28	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 -K29	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 -K30	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 -K31	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 -K32	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 -KF1	1	CPU 1518F-4 PN/DP	6ES7518-4FP00-0AB0	Siemens	SIE.6ES7518-4FP00-0AB0	
=ESS.ACC.F02.K01.U1 -KF2	1	IM155-6 PN HF / BA 2XRJ45	6ES7155-6AU00-0CN0 / 6ES7193-6AR00-0A A0	Siemens	SIE.6ES7155-6AU00-0CN0+BA_2xRJ45	SIE.6ES7155-6AU00-0CN0 / 6ES7193-6AR00-0A0
=ESS.ACC.F02.K01.U1 -KF3	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2D	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2D	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWING TITLE		DRAWING NUMBER (Doc)			
				Accelerator ODH Detection System		ESS-0089356			
				Parts list		LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
						Preliminary	A3	1	2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	DATE	01-Sep-17	SHEET =ESS.ACC.F02.K01&PC/1.2			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE	ESS	NEXT 1.3			



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MM

APPROVED BY
SLB

DATE
01-Sep-17

DESIGN SITE
ESS

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Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U1 -KF4	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U1 -KF5	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U1 -KF6	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U1 -KF7	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U1 -KF8	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2D	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0 +2D	
=ESS.ACC.F02.K01.U1 -KF9	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U1 -KF10	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U1 -KF11	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U1 -KF12	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0 +2D	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0 +2D	
=ESS.ACC.F02.K01.U1 -KF13	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0 +2B	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U1 -KF14	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0 +2B	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U1 -KF15	1	MOUNTING RAIL 482MM (19")	6ES7590-1AE80-0AA0	Siemens	SIE.6ES7590-1AE80-0AA0	SIE.6ES7590-1AE80-0AA0
=ESS.ACC.F02.K01.U1 -PH1	1	TP1500 COMFORT	6AV2124-0QC02-0AX0	Siemens	SIE.6AV2124-0QC02-0AX0	
=ESS.ACC.F02.K01.U1 -QB1	1	ISOLATOR 32A DOUBLE POLE	5TL1232-0	Siemens	5TL1232-0	
=ESS.ACC.F02.K01.U1 -QB2	1	ISOLATOR 32A DOUBLE POLE	5TL1232-0	Siemens	5TL1232-0	
=ESS.ACC.F02.K01.U1 -RB1	1	SITOP UPS1600	6EP4134-3AB00-2AY0	Siemens	SIE.6EP4134-3AB00-2AY0	
=ESS.ACC.F02.K01.U1 -TA1	1	SITOP PSU100S	6EP1334-2BA20	Siemens	SIE.6EP1334-2BA20	SIE.6EP1334-2BA20
=ESS.ACC.F02.K01.U1 -X102	1	Interface module	UMK- PVB 2/24/ZFKDS	Phoenix Contact	PXC.2302366	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY			PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				MM			Parts list	Preliminary	A3	1	2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY		01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.3			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	ePLAN® electric 8 v2.5.4		DESIGN SITE		NEXT 1.4			
				ESS							



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U1 -X103	1	Interface module	UMK- PVB 2/24/ZFKDS	Phoenix Contact	PXC.2302366	
=ESS.ACC.F02.K01.U1 -XF1	1	SCALANCE XC206-2SFP	6GK5206-2BS00-2AC2	Siemens	SIE.6GK5206-2BS00-2AC2	
=ESS.ACC.F02.K01.U1 -XF1	2	SFP991-1LD	6GK5991-1AF00-8AA0	Siemens	SIE.6GK5991-1AF00-8AA0	
=ESS.ACC.F02.K01.U1 -XG1	1	SCHUKO SOCKET for mounting on support rails	SIE.5TE6800	Siemens	SIE.5TE6800	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-FB1	1	RCCB TYPE AC 16/2 30MA 2MW	5SV4311-0	Siemens	SIE.5SV4311-0	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-FC1	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 16A	5SL6516-7	Siemens	SIE.5SL6516-7	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-FC2	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 10A	5SL6510-7	Siemens	SIE.5SL6510-7	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-FC3	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-FC4	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-FC5	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-FC6	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-FC7	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-FC8	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-FC9	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-FC10	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-FC11	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-FC12	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-FC13	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY			PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				MM			Parts list	Preliminary	A3	1	2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY		01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.4			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE		ESS		NEXT 1.5			



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-FC14	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-FC15	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-FC16	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-FC17	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-FC18	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-GB1	1	SITOP UPS1100	6EP4135-0GB00-0AY0	Siemens	SIE.6EP4135-0GB00-0AY0	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K1	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K2	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K3	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K4	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K5	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K6	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K7	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K8	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K9	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K10	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K11	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K12	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY			PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				MM			Parts list	Preliminary	A3	1	2
				APPROVED BY			FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.5			
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	SLB		01-Sep-17		NEXT 1.6			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	ePLAN [®] electric8 v2.5.4		ESS					



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K13	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K14	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K15	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K16	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K17	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K18	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K19	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K20	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K21	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K22	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K23	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K24	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K25	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K26	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K27	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K28	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K29	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K30	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY MM			PAGE TYPE Parts list	LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY SLB		01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.6			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE ESS				NEXT 1.7			



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K31	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-K32	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-KF1	1	CPU 1518F-4 PN/DP	6ES7518-4FP00-0AB0	Siemens	SIE.6ES7518-4FP00-0AB0	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-KF2	1	IM155-6 PN HF / BA 2XRJ45	6ES7155-6AU00-0CN0 / 6ES7193-6AR00-0A A0	Siemens	SIE.6ES7155-6AU00-0CN0+BA_2xRJ45	SIE.6ES7155-6AU00-0CN0 / 6ES7193-6AR00-0A
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-KF3	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2D	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2D	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-KF4	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-KF5	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-KF6	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-KF7	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-KF8	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2D	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0 +2D	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-KF9	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-KF10	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-KF11	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-KF12	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0 +2D	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0 +2D	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-KF13	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0 +2B	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-KF14	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0 +2B	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-PH1	1	TP1500 COMFORT	6AV2124-0QC02-0AX0	Siemens	SIE.6AV2124-0QC02-0AX0	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-QB1	1	ISOLATOR 32A DOUBLE POLE	5TL1232-0	Siemens	5TL1232-0	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY MM			PAGE TYPE Parts list	LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY SLB		01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.7			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE ESS				NEXT 1.8			



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-QB2	1	ISOLATOR 32A DOUBLE POLE	5TL1232-0	Siemens	5TL1232-0	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-RB1	1	SITOP UPS1600	6EP4134-3AB00-2AY0	Siemens	SIE.6EP4134-3AB00-2AY0	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-TA1	1	SITOP PSU100S	6EP1334-2BA20	Siemens	SIE.6EP1334-2BA20	SIE.6EP1334-2BA20
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X0	1	Feed-through terminal block	PT 4	Phoenix Contact	PXC.3211757	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X0	1	Feed-through terminal block	PT 4 BU	Phoenix Contact	PXC.3211760	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X0	1	Ground modular terminal block	PT 4-PE	Phoenix Contact	PXC.3211766	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X1	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X1	1	End bracket	CLIPFIX 35-5	Phoenix Contact	PXC.3022276	PXC.3022276
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X1	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X2	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X2	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X3	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X3	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X4	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X4	1	End bracket	CLIPFIX 35-5	Phoenix Contact	PXC.3022276	PXC.3022276
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X4	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X5	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X5	1	End bracket	CLIPFIX 35-5	Phoenix Contact	PXC.3022276	PXC.3022276

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY			PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				MM			Parts list	Preliminary	A3	1	2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY		01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.8			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE		ESS		NEXT 1.9			

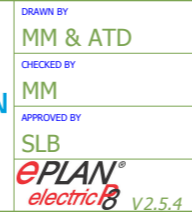


Parts list

ESS_Parts_list_ver2-2017

FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X5	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X6	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X7	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X8	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X9	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X10	32	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X11	32	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X102	1	Interface module	UMK- PVB 2/24/ZFKDS	Phoenix Contact	PXC.2302366	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-X103	1	Interface module	UMK- PVB 2/24/ZFKDS	Phoenix Contact	PXC.2302366	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-XF1	1	SCALANCE XC206-2SFP	6GK5206-2BS00-2AC2	Siemens	SIE.6GK5206-2BS00-2AC2	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-XF1	2	SFP991-1LD	6GK5991-1AF00-8AA0	Siemens	SIE.6GK5991-1AF00-8AA0	
=ESS.ACC.F02.K01.U1 +ESS.G02.100.1001-XG1	1	SCHUKO SOCKET for mounting on support rails	SIE.5TE6800	Siemens	SIE.5TE6800	
=ESS.ACC.F02.K01.U2 -FB1	1	RCCB TYPE AC 16/2 30MA 2MW	5SV4311-0	Siemens	SIE.5SV4311-0	
=ESS.ACC.F02.K01.U2 -FC1	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 16A	5SL6516-7	Siemens	SIE.5SL6516-7	
=ESS.ACC.F02.K01.U2 -FC2	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 10A	5SL6510-7	Siemens	SIE.5SL6510-7	
=ESS.ACC.F02.K01.U2 -FC3	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U2 -FC4	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U2 -FC5	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY			PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				MM			Parts list	Preliminary	A3	1	2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY		DATE	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.9			
				SLB		01-Sep-17					
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE		ESS		NEXT 1.10			



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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U2 -FC6	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U2 -FC7	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 -FC8	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 -FC9	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 -FC10	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 -FC11	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 -FC12	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 -FC13	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 -FC14	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 -FC15	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 -FC16	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 -FC17	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 -FC18	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 -FC19	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U2 -GB1	1	SITOP UPS1100	6EP4135-0GB00-0AY0	Siemens	SIE.6EP4135-0GB00-0AY0	
=ESS.ACC.F02.K01.U2 -K1	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 -K2	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 -K3	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY			PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				MM			Parts list	Preliminary	A3	1	2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY		DATE	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.10			
				SLB		01-Sep-17					
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE		ESS		NEXT 1.11			



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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U2 -K4	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 -K5	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 -K6	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 -K7	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 -K8	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 -K9	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 -K10	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 -K11	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 -K12	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 -K13	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 -K14	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 -K15	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 -K16	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 -K17	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 -K18	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 -K19	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 -K20	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 -K21	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY MM			PAGE TYPE Parts list	LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY SLB		01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.11			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE ESS				NEXT 1.12			



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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U2 -K22	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 -K23	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 -K24	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 -K25	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 -K26	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 -K27	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 -K28	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 -K29	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 -K30	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 -K31	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 -K32	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 -K33	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 -K34	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 -K35	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 -K36	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 -K37	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 -K38	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 -K39	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY MM			PAGE TYPE Parts list	LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY SLB		DATE 01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.12			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE ESS				NEXT 1.13			



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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U2 -K40	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 -K41	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 -K42	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 -K43	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 -K44	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 -K45	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 -K46	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 -K47	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 -K48	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 -KF1	1	IM155-6 PN HF / BA 2XRJ45	6ES7155-6AU00-0CN0 / 6ES7193-6AR00-0A A0	Siemens	SIE.6ES7155-6AU00-0CN0+BA_2xRJ45	SIE.6ES7155-6AU00-0CN0 / 6ES7193-6AR00-0A
=ESS.ACC.F02.K01.U2 -KF2	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2D	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2D	
=ESS.ACC.F02.K01.U2 -KF3	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U2 -KF4	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U2 -KF5	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U2 -KF6	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U2 -KF7	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2D	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0 +2D	
=ESS.ACC.F02.K01.U2 -KF8	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U2 -KF9	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0 +2B	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY MM			PAGE TYPE Parts list	LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY SLB		01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.13			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE ESS				NEXT 1.14			



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U2 -KF10	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U2 -KF11	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0 +2D	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0 +2D	
=ESS.ACC.F02.K01.U2 -KF12	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0 +2B	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U2 -KF13	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0 +2B	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U2 -QB1	1	ISOLATOR 32A DOUBLE POLE	5TL1232-0	Siemens	5TL1232-0	
=ESS.ACC.F02.K01.U2 -RB1	1	SITOP UPS1600	6EP4134-3AB00-2AY0	Siemens	SIE.6EP4134-3AB00-2AY0	
=ESS.ACC.F02.K01.U2 -TA1	1	SITOP PSU100S	6EP1334-2BA20	Siemens	SIE.6EP1334-2BA20	SIE.6EP1334-2BA20
=ESS.ACC.F02.K01.U2 -X102	1	Interface module	UMK- PVB 2/24/ZFKDS	Phoenix Contact	PXC.2302366	
=ESS.ACC.F02.K01.U2 -X103	1	Interface module	UMK- PVB 2/24/ZFKDS	Phoenix Contact	PXC.2302366	
=ESS.ACC.F02.K01.U2 -XD6	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F02.K01.U2 -XD7	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F02.K01.U2 -XF1	1	SCALANCE XC206-2SFP	6GK5206-2BS00-2AC2	Siemens	SIE.6GK5206-2BS00-2AC2	
=ESS.ACC.F02.K01.U2 -XF1	2	SFP991-1LD	6GK5991-1AF00-8AA0	Siemens	SIE.6GK5991-1AF00-8AA0	
=ESS.ACC.F02.K01.U2 -XG1	1	SCHUKO SOCKET for mounting on support rails	SIE.5TE6800	Siemens	SIE.5TE6800	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-FB1	1	RCCB TYPE AC 16/2 30MA 2MW	5SV4311-0	Siemens	SIE.5SV4311-0	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-FC1	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 16A	5SL6516-7	Siemens	SIE.5SL6516-7	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-FC2	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 10A	5SL6510-7	Siemens	SIE.5SL6510-7	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-FC3	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)
				MM & ATD		Accelerator ODH Detection System	ESS-0089356
				CHECKED BY MM		PAGE TYPE Parts list	LIFECYCLE LABEL Preliminary
				APPROVED BY SLB	01-Sep-17	FUNCTION	PAGE SIZE A3
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	DESIGN SITE ESS			PAGE SCALE 1
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.				REV 2
							SHEET =ESS.ACC.F02.K01&PC/1.14
							NEXT 1.15



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-FC4	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-FC5	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-FC6	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-FC7	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-FC8	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-FC9	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-FC10	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-FC11	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-FC12	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-FC13	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-FC14	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-FC15	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-FC16	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-FC17	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-FC18	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-FC19	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-GB1	1	SITOP UPS1100	6EP4135-0GB00-0AY0	Siemens	SIE.6EP4135-0GB00-0AY0	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K1	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small>		DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
						MM & ATD		Accelerator ODH Detection System	ESS-0089356			
						CHECKED BY		PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
						MM		Parts list	Preliminary	A3	1	2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams			APPROVED BY	01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.15			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.			SLB	DESIGN SITE		NEXT 1.16			
						 EPLAN <small>electric8 v2.5.4</small>	ESS					

Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K2	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K3	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K4	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K5	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K6	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K7	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K8	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K9	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K10	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K11	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K12	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K13	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K14	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K15	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K16	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K17	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K18	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K19	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	MM & ATD			Accelerator ODH Detection System	ESS-0089356			
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	CHECKED BY		DATE	PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				MM			Parts list	Preliminary	A3	1	2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY		DATE	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.16			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	SLB		01-Sep-17		NEXT 1.17			
				DESIGN SITE		ESS					

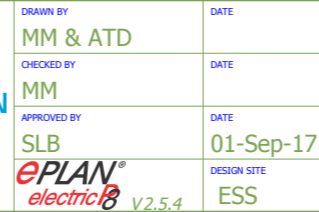


Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K20	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K21	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K22	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K23	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K24	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K25	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K26	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K27	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K28	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K29	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K30	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K31	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K32	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K33	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K34	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K35	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K36	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K37	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY MM			PAGE TYPE Parts list	LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY SLB		01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.17			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE ESS				NEXT 1.18			



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K38	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K39	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K40	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K41	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K42	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K43	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K44	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K45	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K46	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K47	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-K48	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-KF1	1	IM155-6 PN HF / BA 2XRJ45	6ES7155-6AU00-0CN0 / 6ES7193-6AR00-0A A0	Siemens	SIE.6ES7155-6AU00-0CN0+BA_2xRJ45	SIE.6ES7155-6AU00-0CN0 / 6ES7193-6AR00-0A
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-KF2	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2D	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2D	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-KF3	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-KF4	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-KF5	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-KF6	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-KF7	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2D	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0 +2D	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small>		DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
						MM & ATD		Accelerator ODH Detection System	ESS-0089356			
						CHECKED BY		PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
						MM		Parts list	Preliminary	A3	1	2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams			APPROVED BY	01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.18			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.			SLB	DESIGN SITE		NEXT 1.19			
						 v2.5.4	ESS					

Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-KF8	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0+2B	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-KF9	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0+2B	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-KF10	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0+2B	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-KF11	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0+2D	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0+2D	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-KF12	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0+2B	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-KF13	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0+2B	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-QB1	1	ISOLATOR 32A DOUBLE POLE	5TL1232-0	Siemens	5TL1232-0	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-QB2	1	ISOLATOR 32A DOUBLE POLE	5TL1232-0	Siemens	5TL1232-0	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-RB1	1	SITOP UPS1600	6EP4134-3AB00-2AY0	Siemens	SIE.6EP4134-3AB00-2AY0	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-TA1	1	SITOP PSU100S	6EP1334-2BA20	Siemens	SIE.6EP1334-2BA20	SIE.6EP1334-2BA20
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X0	1	Feed-through terminal block	PT 4	Phoenix Contact	PXC.3211757	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X0	2	End bracket	CLIPFIX 35-5	Phoenix Contact	PXC.3022276	PXC.3022276
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X0	1	Feed-through terminal block	PT 4 BU	Phoenix Contact	PXC.3211760	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X0	1	Ground modular terminal block	PT 4-PE	Phoenix Contact	PXC.3211766	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X1	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X1	1	End bracket	CLIPFIX 35-5	Phoenix Contact	PXC.3022276	PXC.3022276
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X1	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X2	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWING TITLE		DRAWING NUMBER (Doc)			
				Accelerator ODH Detection System		ESS-0089356			
				Parts list		LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
						Preliminary	A3	1	2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	DATE	01-Sep-17	SHEET =ESS.ACC.F02.K01&PC/1.19			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE	ESS	NEXT 1.20			



DRAWN BY: MM & ATD
 CHECKED BY: MM
 APPROVED BY: SLB
 DATE: 01-Sep-17
 DESIGN SITE: ESS


Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X2	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X3	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X3	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X4	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X4	1	End bracket	CLIPFIX 35-5	Phoenix Contact	PXC.3022276	PXC.3022276
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X4	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X5	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X5	1	End bracket	CLIPFIX 35-5	Phoenix Contact	PXC.3022276	PXC.3022276
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X5	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X6	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X7	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X8	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X8	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X8	1	End bracket	CLIPFIX 35-5	Phoenix Contact	PXC.3022276	PXC.3022276
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X9	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X9	2	End bracket	CLIPFIX 35-5	Phoenix Contact	PXC.3022276	PXC.3022276
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X9	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X10	32	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWING TITLE		DRAWING NUMBER (Doc)	
				Accelerator ODH Detection System		ESS-0089356	
				Parts list		LIFECYCLE LABEL	PAGE SIZE
						Preliminary	A3
						PAGE SCALE	REV
						1	2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	CHECKED BY	DATE	SHEET =ESS.ACC.F02.K01&PC/1.20	
				MM			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	APPROVED BY	DATE	NEXT 1.21	
				SLB	01-Sep-17		
				DESIGN SITE			
				ESS			



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X10	1	End bracket	CLIPFIX 35-5	Phoenix Contact	PXC.3022276	PXC.3022276
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X10	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X11	32	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X11	1	End bracket	CLIPFIX 35-5	Phoenix Contact	PXC.3022276	PXC.3022276
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X11	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X12	32	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X12	1	End bracket	CLIPFIX 35-5	Phoenix Contact	PXC.3022276	PXC.3022276
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X12	1	End cover	D-PT 2,5-MT	Phoenix Contact	PXC.3211003	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X102	1	Interface module	UMK- PVB 2/24/ZFKDS	Phoenix Contact	PXC.2302366	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-X103	1	Interface module	UMK- PVB 2/24/ZFKDS	Phoenix Contact	PXC.2302366	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-XF1	1	SCALANCE XC206-2SFP	6GK5206-2BS00-2AC2	Siemens	SIE.6GK5206-2BS00-2AC2	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-XF1	2	SFP991-1LD	6GK5991-1AF00-8AA0	Siemens	SIE.6GK5991-1AF00-8AA0	
=ESS.ACC.F02.K01.U2 +ESS.G04.100.7002-XG1	1	SCHUKO SOCKET for mounting on support rails	SIE.5TE6800	Siemens	SIE.5TE6800	
=ESS.ACC.F02.K01.U3 -FB1	1	RCCB TYPE AC 16/2 30MA 2MW	5SV4311-0	Siemens	SIE.5SV4311-0	
=ESS.ACC.F02.K01.U3 -FC1	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 16A	5SL6516-7	Siemens	SIE.5SL6516-7	
=ESS.ACC.F02.K01.U3 -FC2	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 10A	5SL6510-7	Siemens	SIE.5SL6510-7	
=ESS.ACC.F02.K01.U3 -FC3	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U3 -FC4	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY MM			PAGE TYPE Parts list	LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY SLB		01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.21			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE ESS				NEXT 1.22			



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U3 -FC5	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U3 -FC6	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U3 -FC7	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U3 -FC8	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U3 -FC9	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U3 -FC10	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U3 -FC11	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U3 -FC12	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U3 -FC13	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U3 -FC14	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U3 -FC15	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U3 -FC16	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U3 -FC17	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U3 -FC18	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U3 -FC19	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U3 -GB1	1	SITOP UPS1100	6EP4135-0GB00-0AY0	Siemens	SIE.6EP4135-0GB00-0AY0	
=ESS.ACC.F02.K01.U3 -K1	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 -K2	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY MM			PAGE TYPE Parts list	LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY SLB		01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.22			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE ESS				NEXT 1.23			



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U3 -K3	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 -K4	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 -K5	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 -K6	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 -K7	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 -K8	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 -K9	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 -K10	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 -K11	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 -K12	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 -K13	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 -K14	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 -K15	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 -K16	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 -K17	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 -K18	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 -K19	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 -K20	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY MM			PAGE TYPE Parts list	LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY SLB		01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.23			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE ESS				NEXT 1.24			



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U3 -K21	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 -K22	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 -K23	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 -K24	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 -K25	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 -K26	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 -K27	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 -K28	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 -K29	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 -K30	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 -K31	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 -K32	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 -K33	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 -K34	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 -K35	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 -K36	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 -K37	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 -K38	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY MM			PAGE TYPE Parts list	LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY SLB		01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.24			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE ESS				NEXT 1.25			



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U3 -K39	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 -K40	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 -K41	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 -K42	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 -K43	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 -K44	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 -K45	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 -K46	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 -K47	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 -K48	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 -KF1	1	IM155-6 PN HF / BA 2XRJ45	6ES7155-6AU00-0CN0 / 6ES7193-6AR00-0A A0	Siemens	SIE.6ES7155-6AU00-0CN0+BA_2xRJ45	SIE.6ES7155-6AU00-0CN0 / 6ES7193-6AR00-0A
=ESS.ACC.F02.K01.U3 -KF2	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2D	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2D	
=ESS.ACC.F02.K01.U3 -KF3	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U3 -KF4	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U3 -KF5	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U3 -KF6	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U3 -KF7	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2D	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0 +2D	
=ESS.ACC.F02.K01.U3 -KF8	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0 +2B	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY			PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				MM			Parts list	Preliminary	A3	1	2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY		01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.25			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	ePLAN® electric 8 v2.5.4		DESIGN SITE		NEXT 1.26			
				ESS							



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U3 -KF9	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U3 -KF10	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U3 -KF11	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0 +2D	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0 +2D	
=ESS.ACC.F02.K01.U3 -KF12	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0 +2B	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U3 -KF13	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0 +2B	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U3 -QB1	1	ISOLATOR 32A DOUBLE POLE	5TL1232-0	Siemens	5TL1232-0	
=ESS.ACC.F02.K01.U3 -RB1	1	SITOP UPS1600	6EP4134-3AB00-2AY0	Siemens	SIE.6EP4134-3AB00-2AY0	
=ESS.ACC.F02.K01.U3 -TA1	1	SITOP PSU100S	6EP1334-2BA20	Siemens	SIE.6EP1334-2BA20	SIE.6EP1334-2BA20
=ESS.ACC.F02.K01.U3 -X102	1	Interface module	UMK- PVB 2/24/ZFKDS	Phoenix Contact	PXC.2302366	
=ESS.ACC.F02.K01.U3 -X103	1	Interface module	UMK- PVB 2/24/ZFKDS	Phoenix Contact	PXC.2302366	
=ESS.ACC.F02.K01.U3 -XF1	1	SCALANCE XC206-2SFP	6GK5206-2BS00-2AC2	Siemens	SIE.6GK5206-2BS00-2AC2	
=ESS.ACC.F02.K01.U3 -XF1	2	SFP991-1LD	6GK5991-1AF00-8AA0	Siemens	SIE.6GK5991-1AF00-8AA0	
=ESS.ACC.F02.K01.U3 -XG1	1	SCHUKO SOCKET for mounting on support rails	SIE.5TE6800	Siemens	SIE.5TE6800	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-FB1	1	RCCB TYPE AC 16/2 30MA 2MW	5SV4311-0	Siemens	SIE.5SV4311-0	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-FC1	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 16A	5SL6516-7	Siemens	SIE.5SL6516-7	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-FC2	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 10A	5SL6510-7	Siemens	SIE.5SL6510-7	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-FC3	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-FC4	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY MM			PAGE TYPE Parts list	LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY SLB		01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.26			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE ESS				NEXT 1.27			



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-FC5	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-FC6	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-FC7	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-FC8	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-FC9	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-FC10	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-FC11	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-FC12	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-FC13	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-FC14	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-FC15	1	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 1A	5SL6101-7	Siemens	SIE.5SL6101-7	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-FC16	1	CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 4A	5SL6504-7	Siemens	SIE.5SL6504-7	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-GB1	1	SITOP UPS1100	6EP4135-0GB00-0AY0	Siemens	SIE.6EP4135-0GB00-0AY0	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K1	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K2	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K3	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K4	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K5	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY			PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				MM			Parts list	Preliminary	A3	1	2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY		DATE	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.27			
				SLB		01-Sep-17					
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE		ESS		NEXT 1.28			



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K6	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K7	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K8	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K9	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K10	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K11	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K12	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K13	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K14	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K15	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K16	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K17	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K18	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K19	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K20	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K21	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K22	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K23	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY MM			PAGE TYPE Parts list	LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY SLB		01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.28			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE ESS				NEXT 1.29			



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K24	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K25	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K26	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K27	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K28	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K29	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K30	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K31	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K32	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K33	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K34	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K35	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K36	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K37	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K38	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K39	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K40	1	PLUG-IN RELAY 24VAC/DC,1NO, SCREW	3RQ3118-1AB00	Siemens	SIE.3RQ3118-1AB00	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K41	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY MM			PAGE TYPE Parts list	LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY SLB		DATE 01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.29			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE ESS				NEXT 1.30			



Parts list

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=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K42	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K43	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K44	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K45	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K46	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K47	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-K48	1	PLUG-IN RELAY, COMPLETE UNIT 24 V DC, 3 CO CONTACT	LZS:PT3A5L24	Siemens	SIE.LZS:PT3A5L24	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-KF1	1	IM155-6 PN HF / BA 2XRJ45	6ES7155-6AU00-0CN0 / 6ES7193-6AR00-0A A0	Siemens	SIE.6ES7155-6AU00-0CN0+BA_2xRJ45	SIE.6ES7155-6AU00-0CN0 / 6ES7193-6AR00-0A
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-KF2	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2D	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2D	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-KF3	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-KF4	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-KF5	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-KF6	1	DI 16X24V DC ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-KF7	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2D	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0 +2D	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-KF8	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-KF9	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-KF10	1	AI 4XU/I 2-WIRE ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0 +2B	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-KF11	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0 +2D	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0D A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0 +2D	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY			PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				MM			Parts list	Preliminary	A3	1	2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY		01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.30			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	ePLAN® electric 8 v2.5.4		DESIGN SITE		NEXT 1.31			
				ESS							



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-KF12	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0+2B	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-KF13	1	DQ 16X24V DC/0,5A ST / BASEUNIT TYPE A0, BU15-P16+A0+2B	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0B A0	Siemens	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0+2B	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-QB1	1	ISOLATOR 32A DOUBLE POLE	5TL1232-0	Siemens	5TL1232-0	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-QB2	1	ISOLATOR 32A DOUBLE POLE	5TL1232-0	Siemens	5TL1232-0	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-RB1	1	SITOP UPS1600	6EP4134-3AB00-2AY0	Siemens	SIE.6EP4134-3AB00-2AY0	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-TA1	1	SITOP PSU100S	6EP1334-2BA20	Siemens	SIE.6EP1334-2BA20	SIE.6EP1334-2BA20
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-X0	1	Feed-through terminal block	PT 4	Phoenix Contact	PXC.3211757	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-X0	1	Feed-through terminal block	PT 4 BU	Phoenix Contact	PXC.3211760	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-X0	1	Ground modular terminal block	PT 4-PE	Phoenix Contact	PXC.3211766	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-X1	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-X2	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-X3	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-X4	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-X5	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-X6	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-X7	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-X8	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-X9	16	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD			Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY			PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				MM			Parts list	Preliminary	A3	1	2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY		DATE	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.31			
				SLB		01-Sep-17					
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE		ESS		NEXT 1.32			

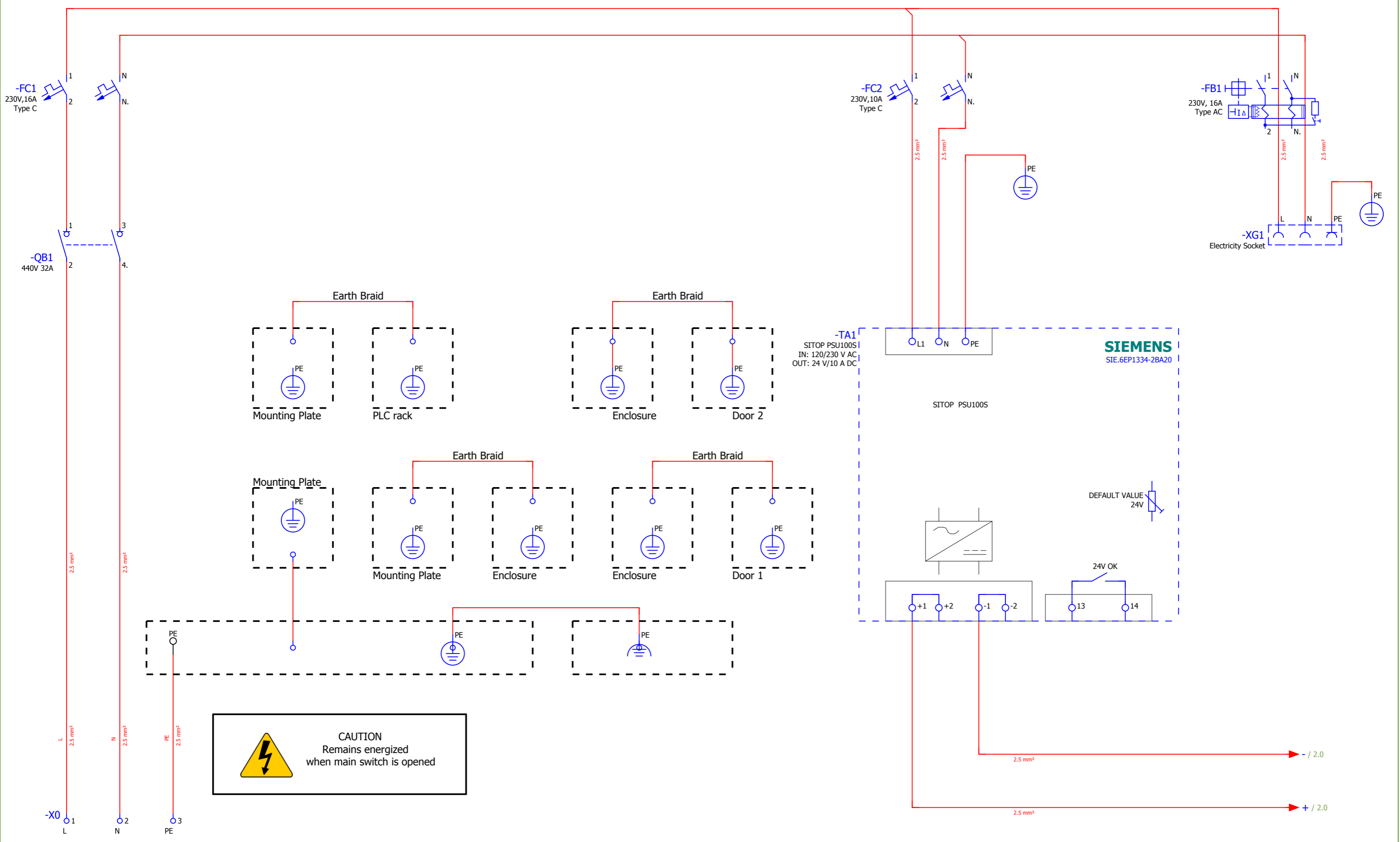


Parts list

ESS_Parts_list_ver2-2017

FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-X10	64	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-X11	32	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-X102	1	Interface module	UMK- PVB 2/24/ZFKDS	Phoenix Contact	PXC.2302366	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-X103	1	Interface module	UMK- PVB 2/24/ZFKDS	Phoenix Contact	PXC.2302366	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-XF1	1	SCALANCE XC206-2SFP	6GK5206-2BS00-2AC2	Siemens	SIE.6GK5206-2BS00-2AC2	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-XF1	2	SFP991-1LD	6GK5991-1AF00-8AA0	Siemens	SIE.6GK5991-1AF00-8AA0	
=ESS.ACC.F02.K01.U3 +ESS.G02.100.2002-XG1	1	SCHUKO SOCKET for mounting on support rails	SIE.5TE6800	Siemens	SIE.5TE6800	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small>	DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
					MM & ATD		Accelerator ODH Detection System	ESS-0089356			
					CHECKED BY		PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
					MM		Parts list	Preliminary	A3	1	2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY	DATE	FUNCTION	SHEET =ESS.ACC.F02.K01&PC/1.32				
				SLB	01-Sep-17		NEXT =.ACC.F02.K01.U1&FS/1				
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE	ESS						



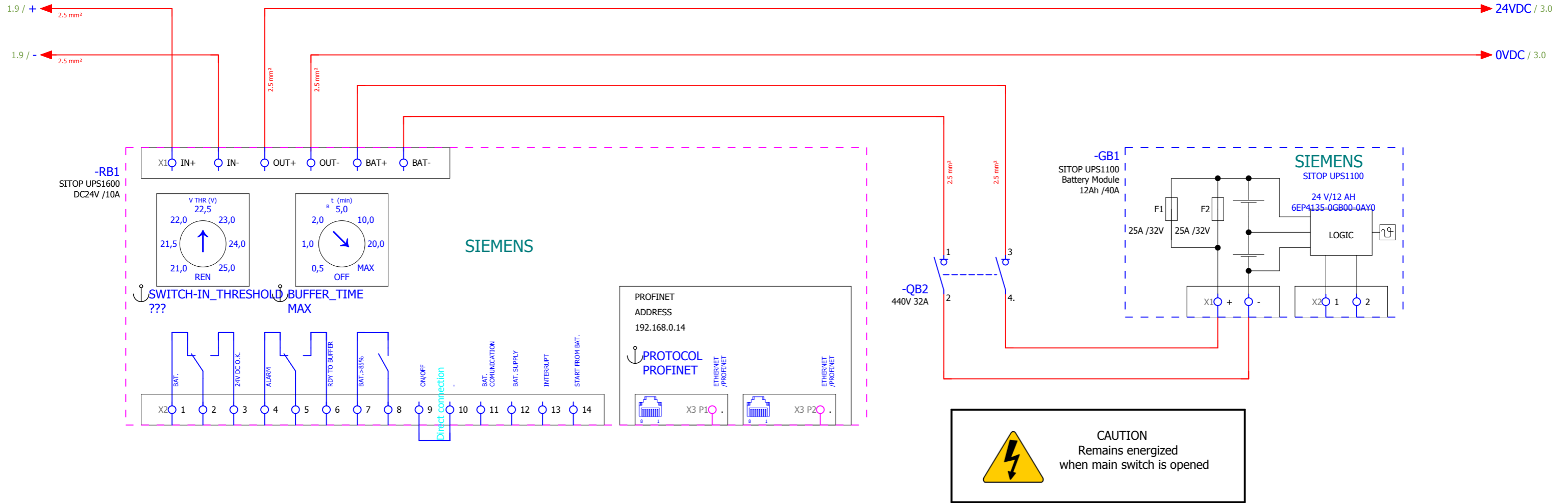
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Schematic multi-line
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356
LIFECYCLE LABEL	Preliminary
PAGE SIZE	A3
PAGE SCALE	1
REV	2
SHEET	=ESS.ACC.F02.K01.U1&FS/1
NEXT	2



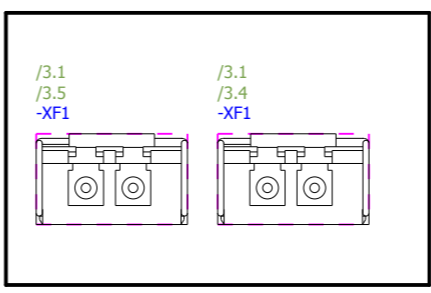
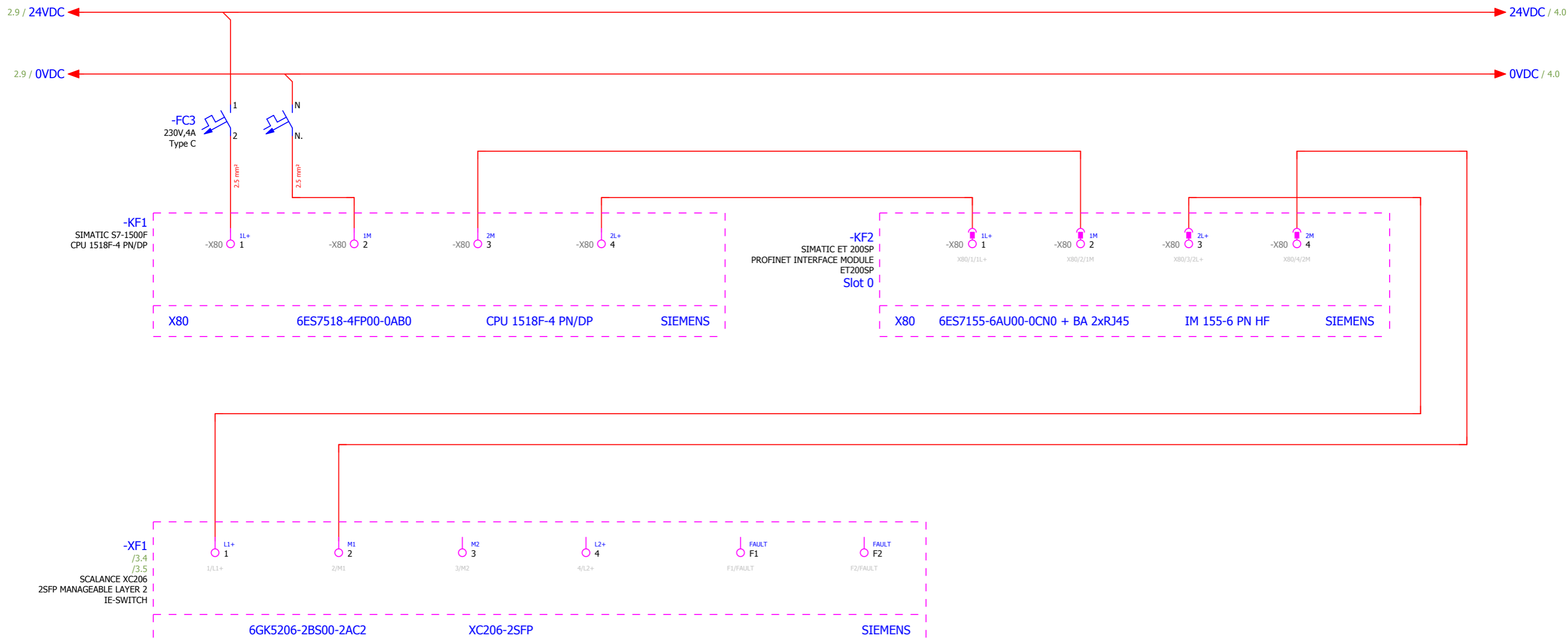
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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APPROVED BY	SLB	DATE	01-Sep-17
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DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Schematic multi-line
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356
LIFECYCLE LABEL	Preliminary
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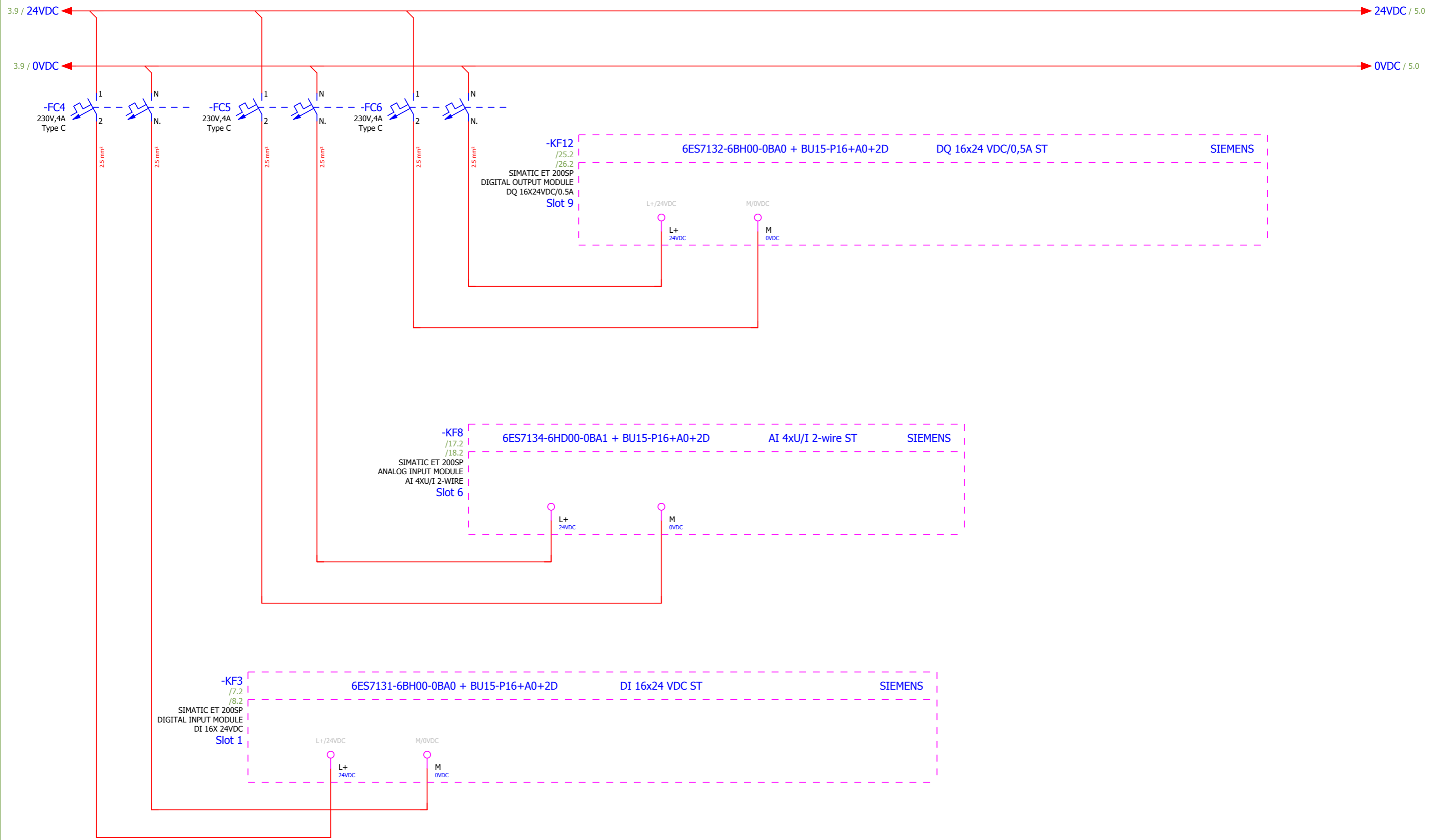


**SFP pluggable transceiver for media modules
100MBIT/S LC-PORT OPTICAL**

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DRAWN BY	DATE	DRAWING TITLE
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APPROVED BY	DATE	FUNCTION
SLB	01-Sep-17	
DESIGN SITE		
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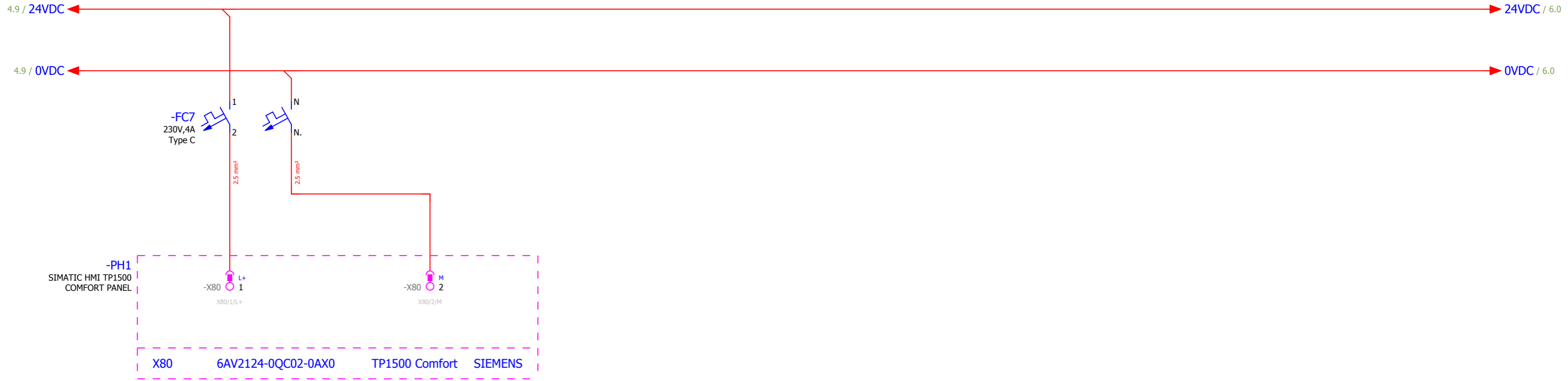
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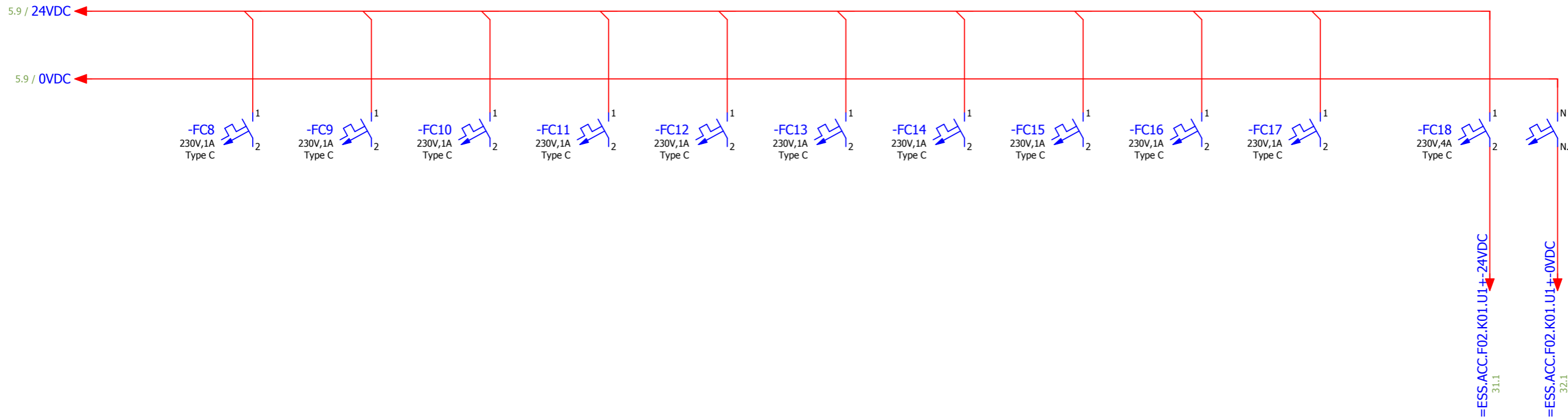
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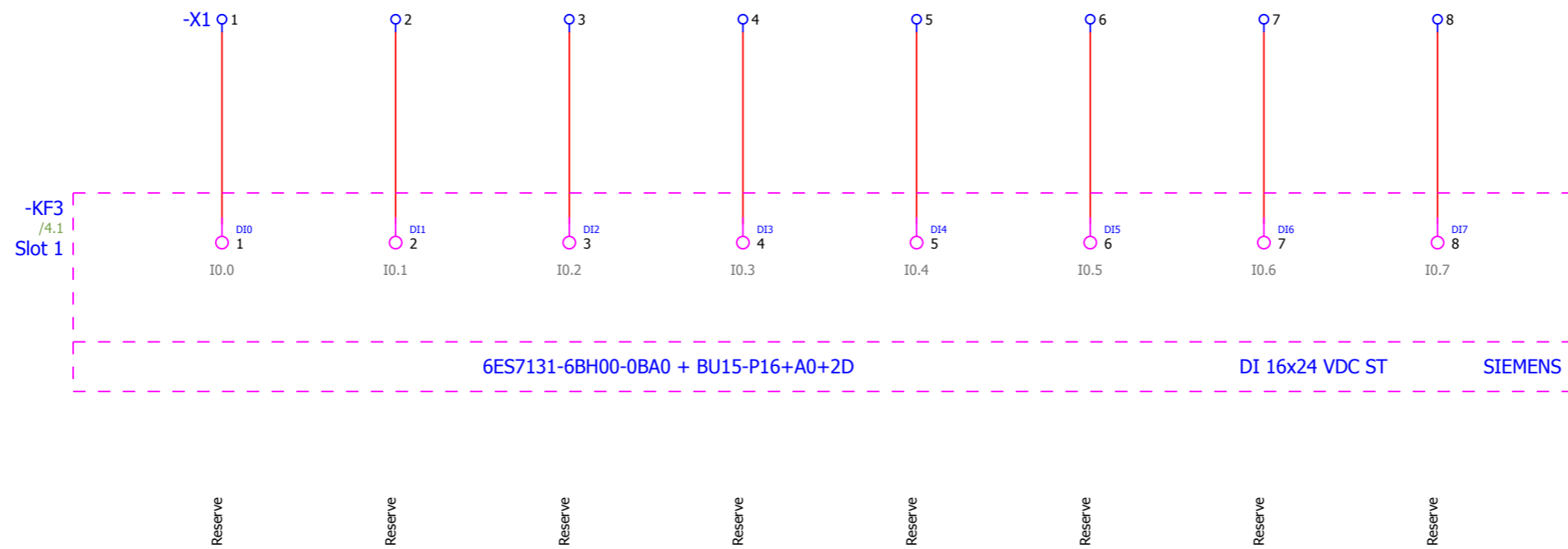
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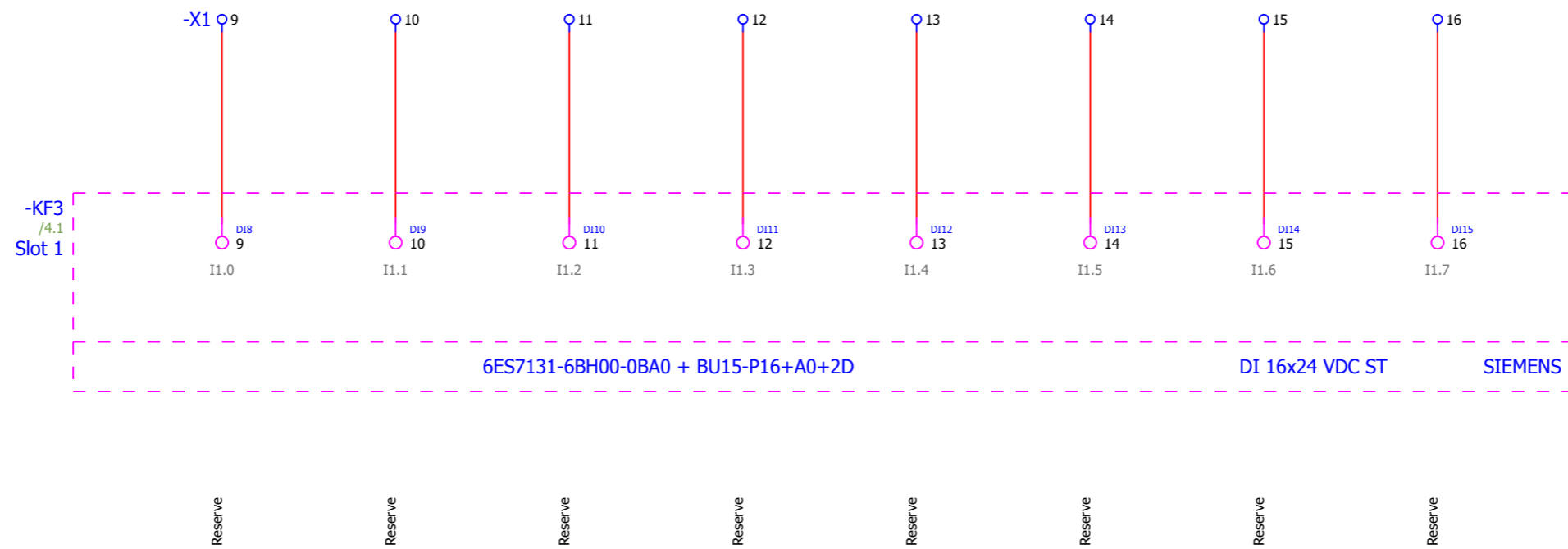
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PAGE TYPE	Schematic multi-line
FUNCTION	

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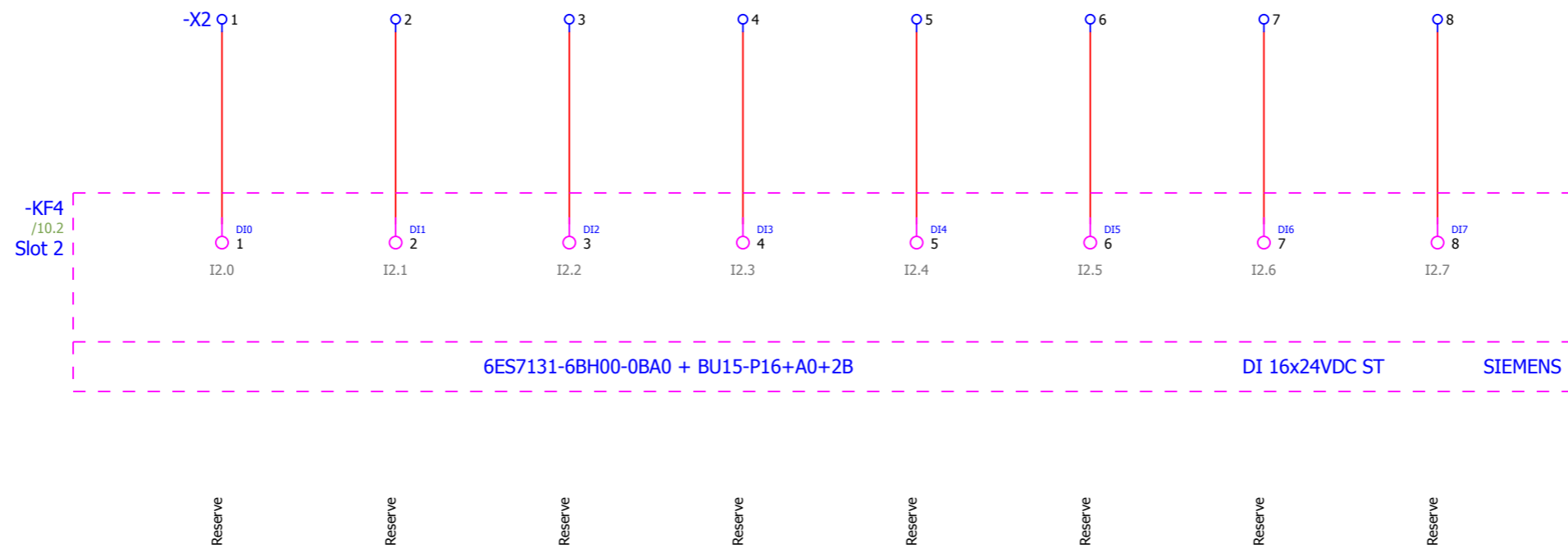
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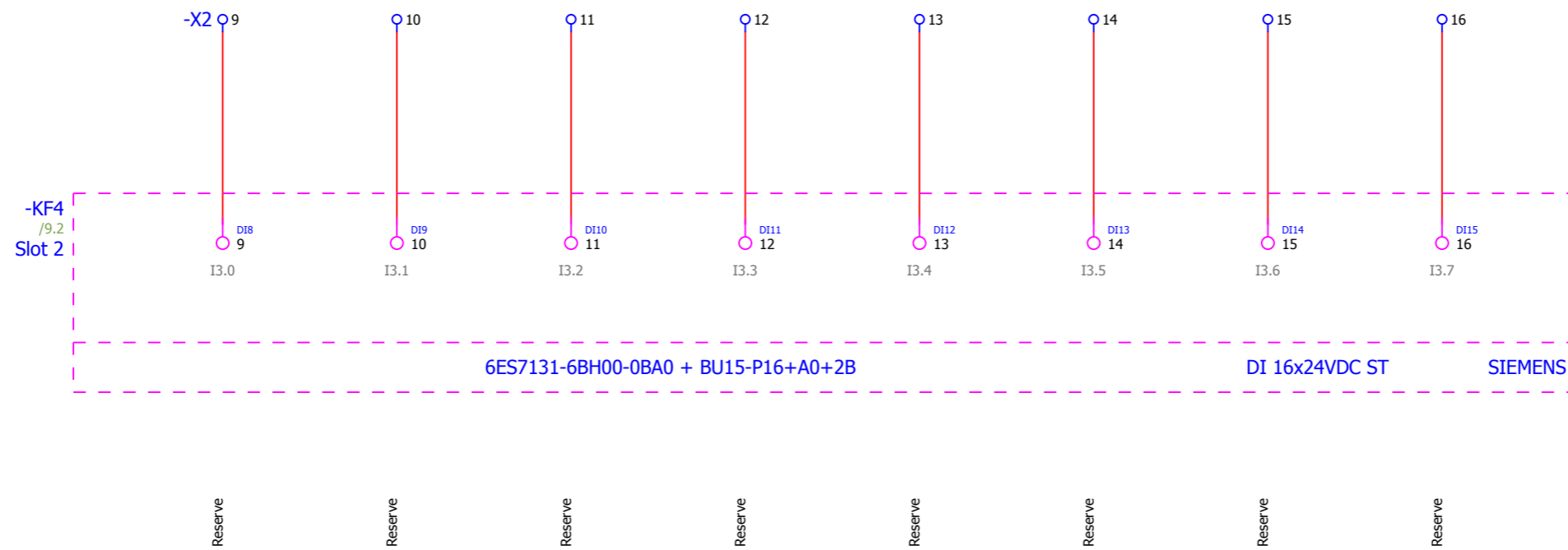
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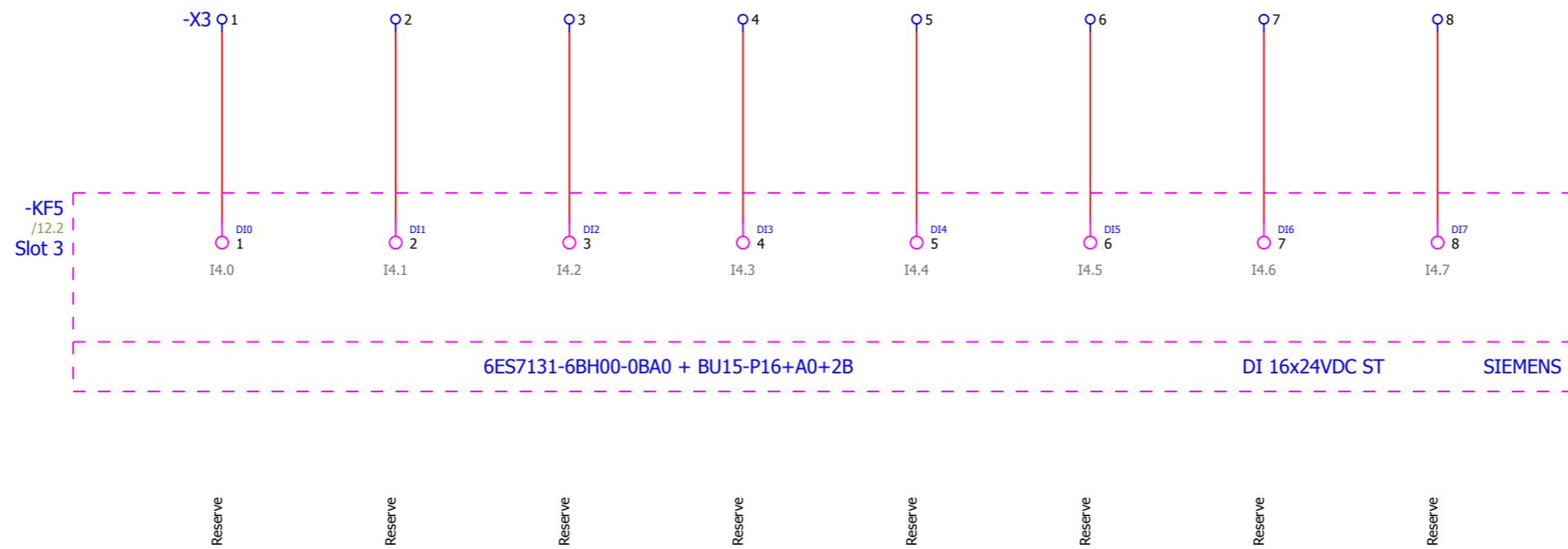
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FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
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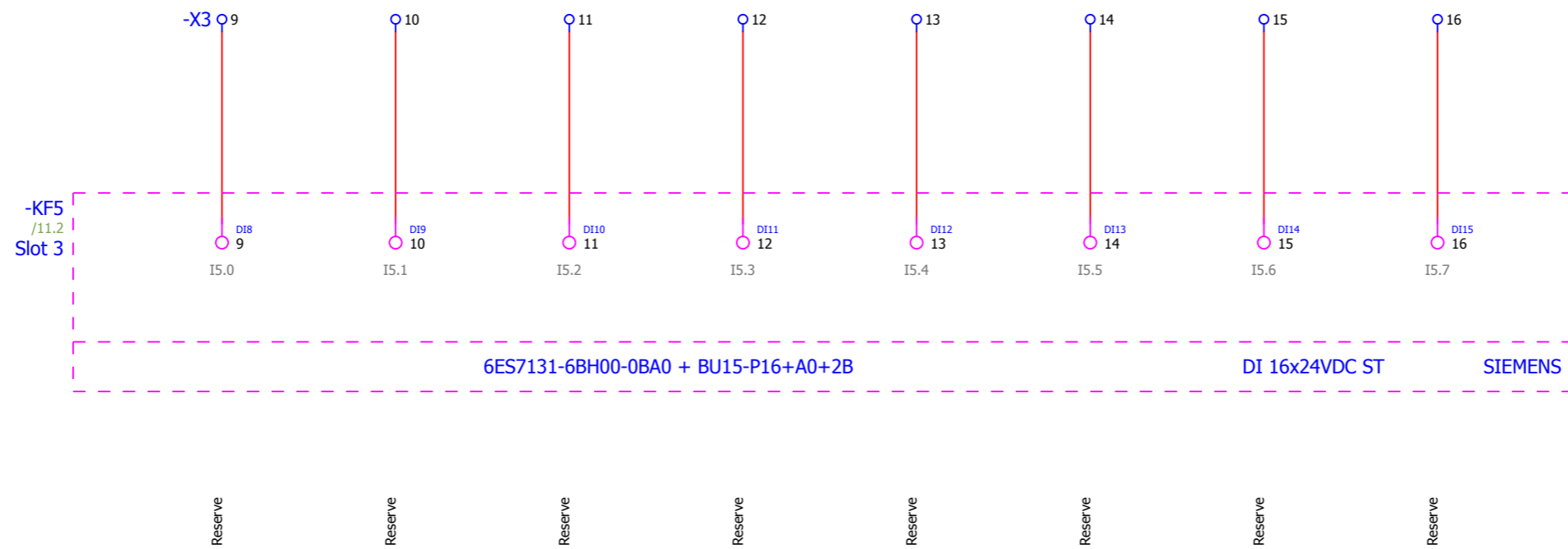
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FUNCTION	

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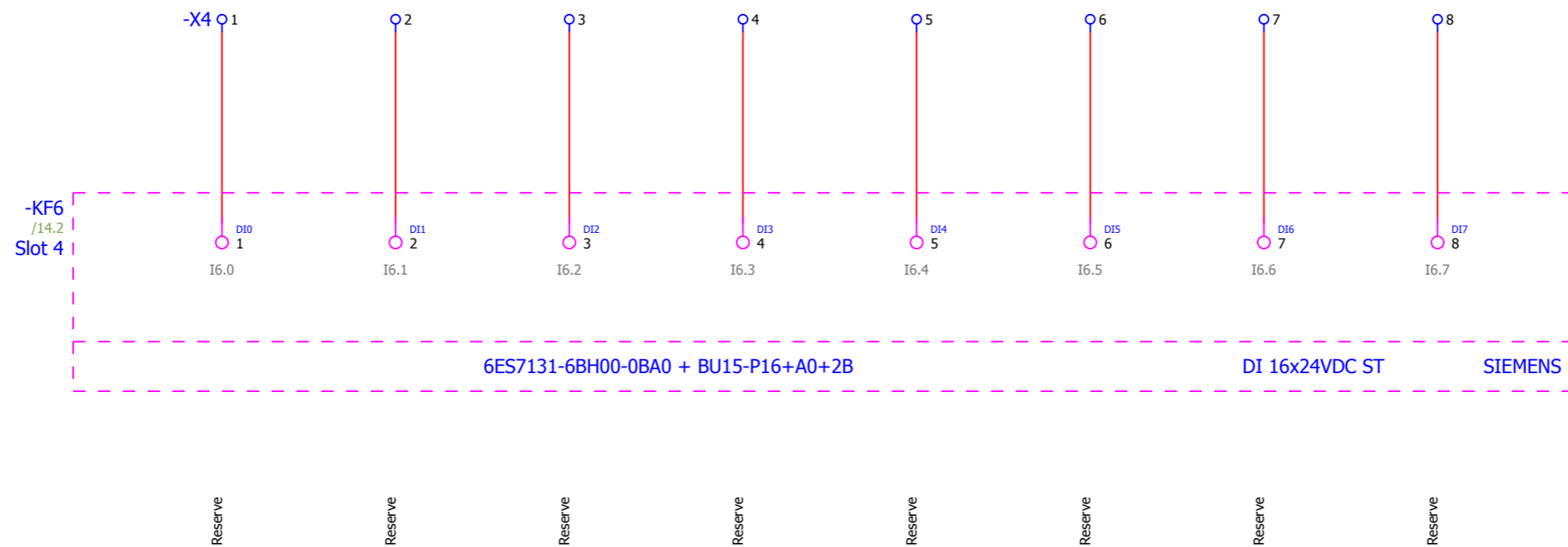
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FUNCTION	

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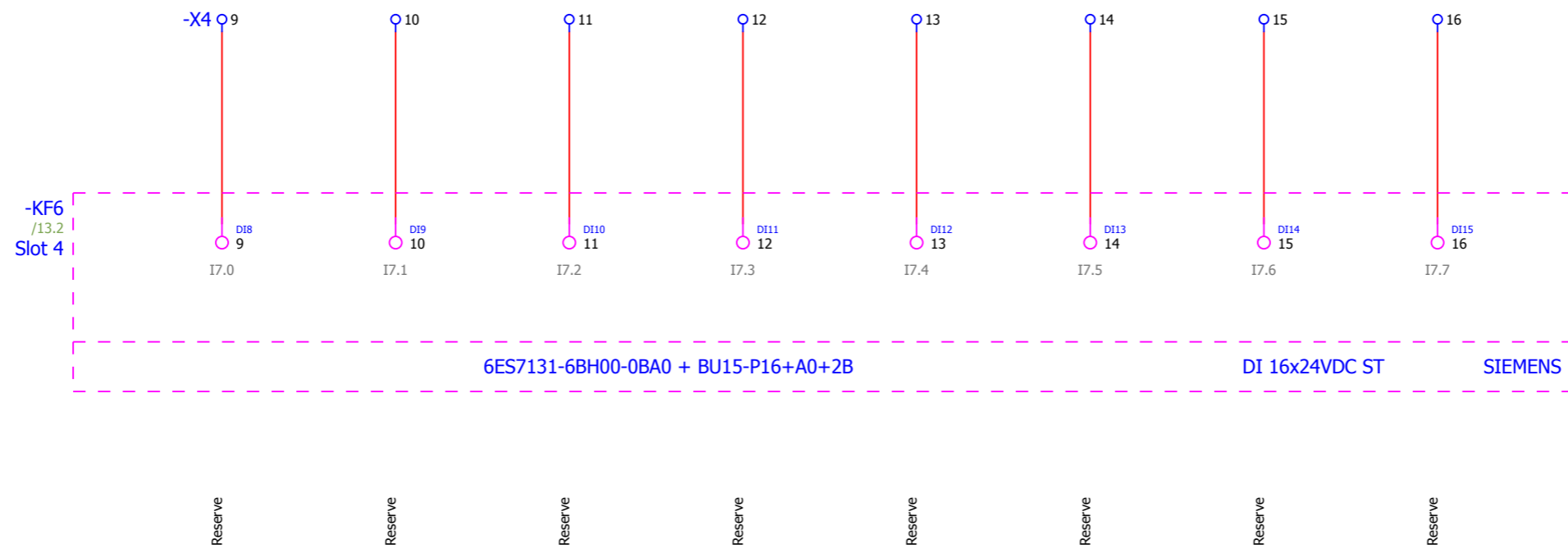
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FUNCTION	

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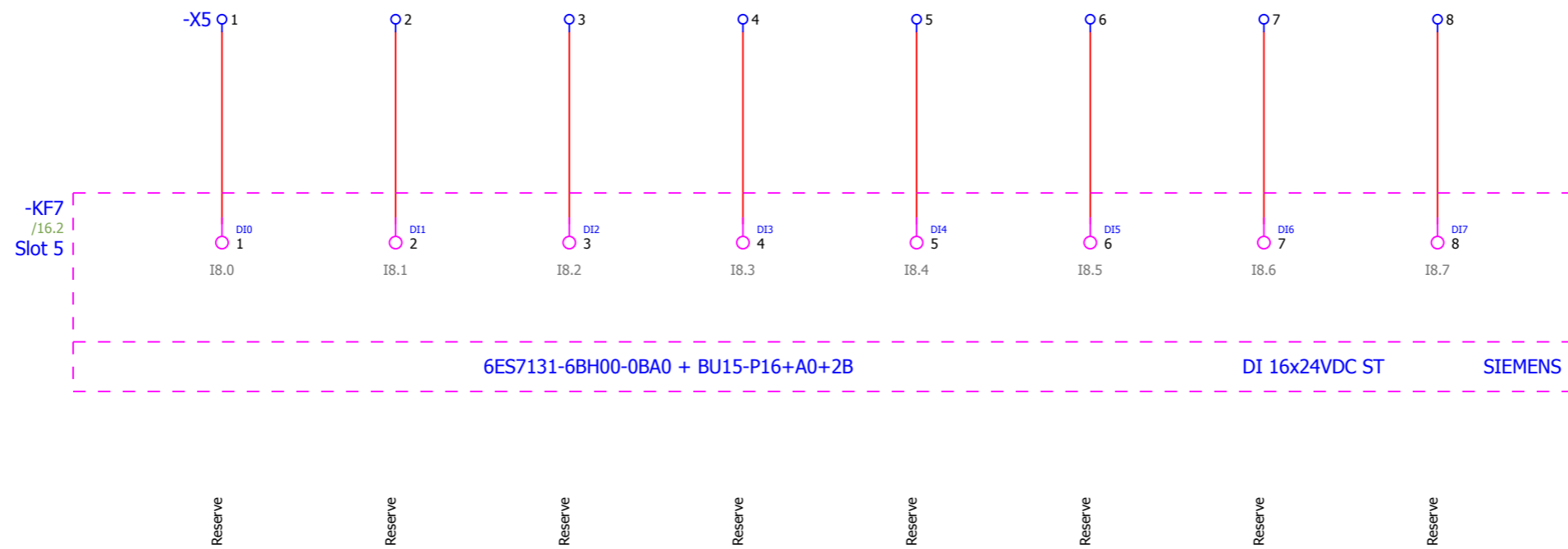
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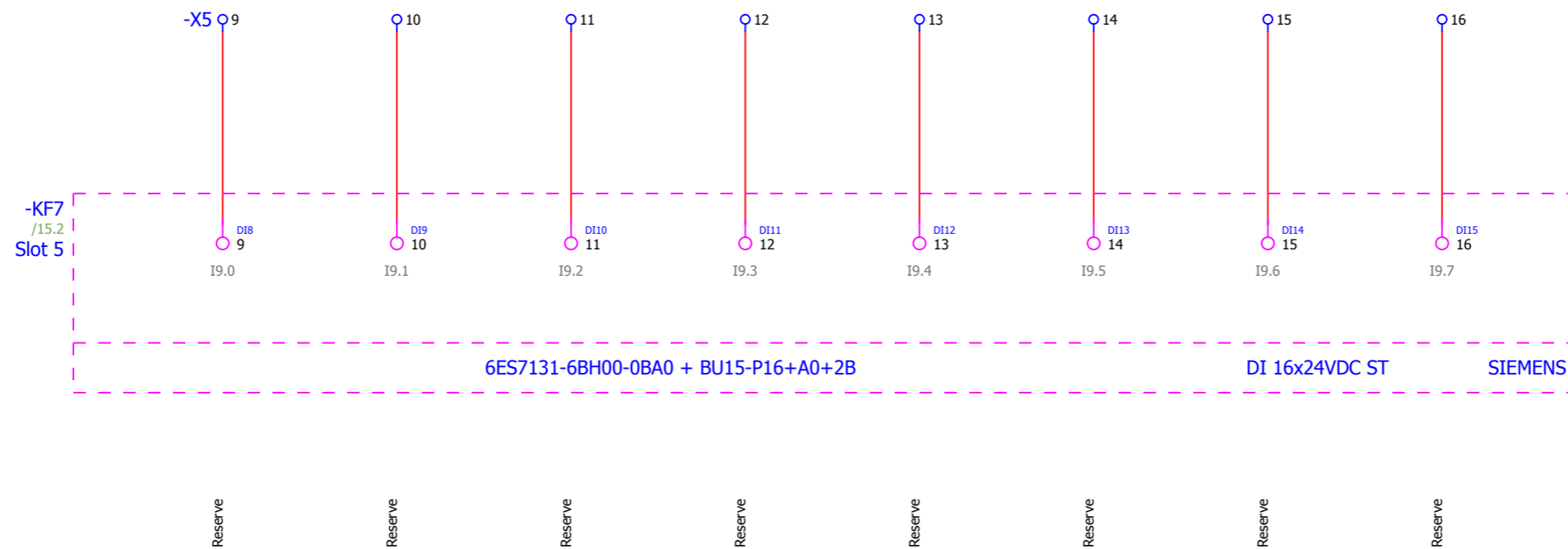
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FUNCTION	

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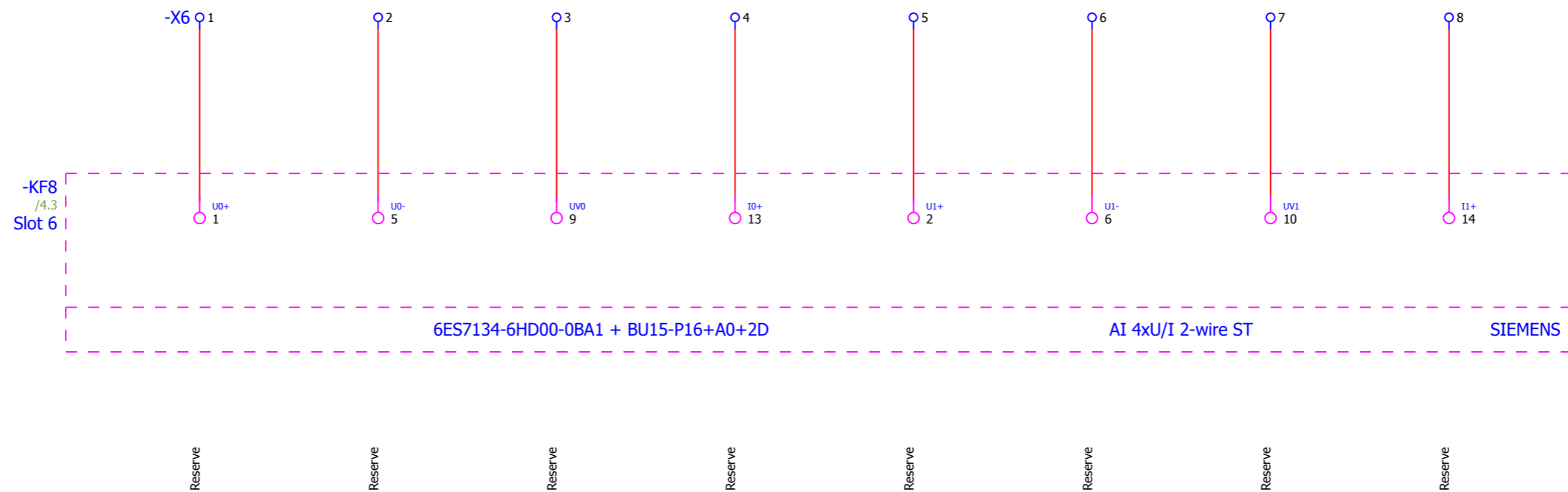
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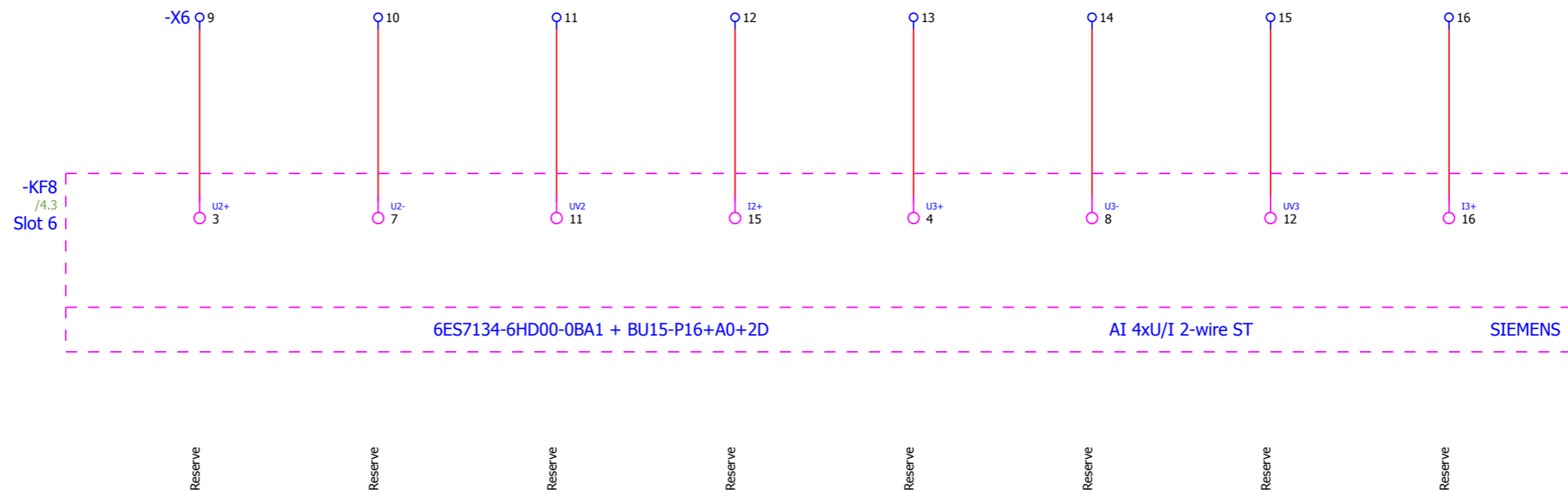
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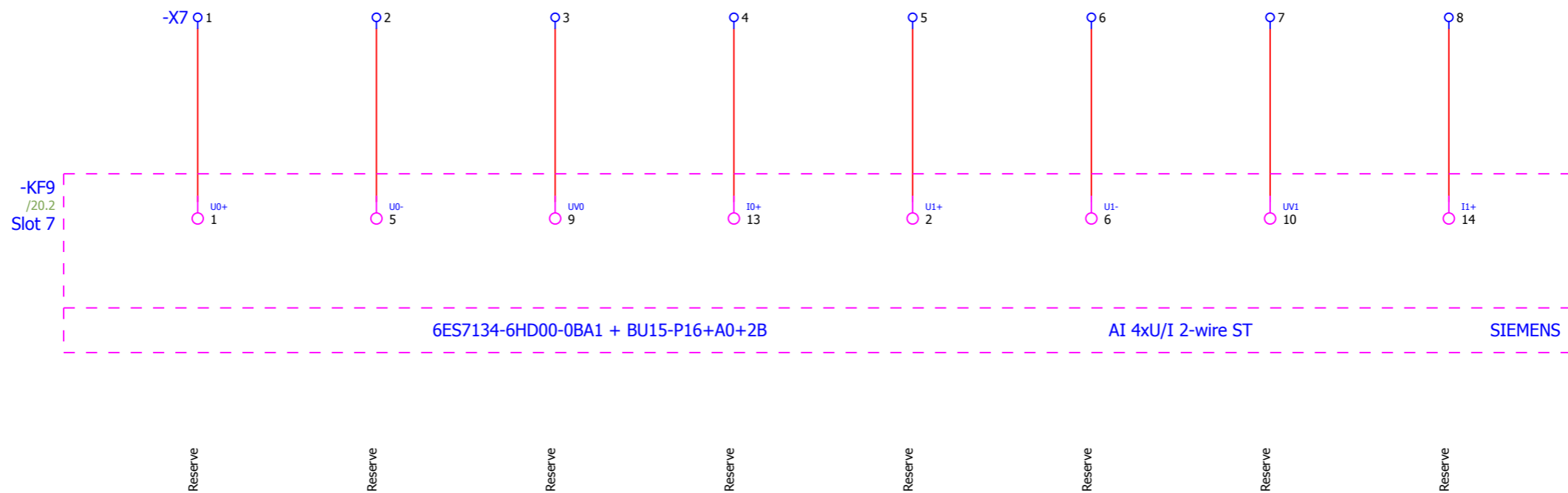
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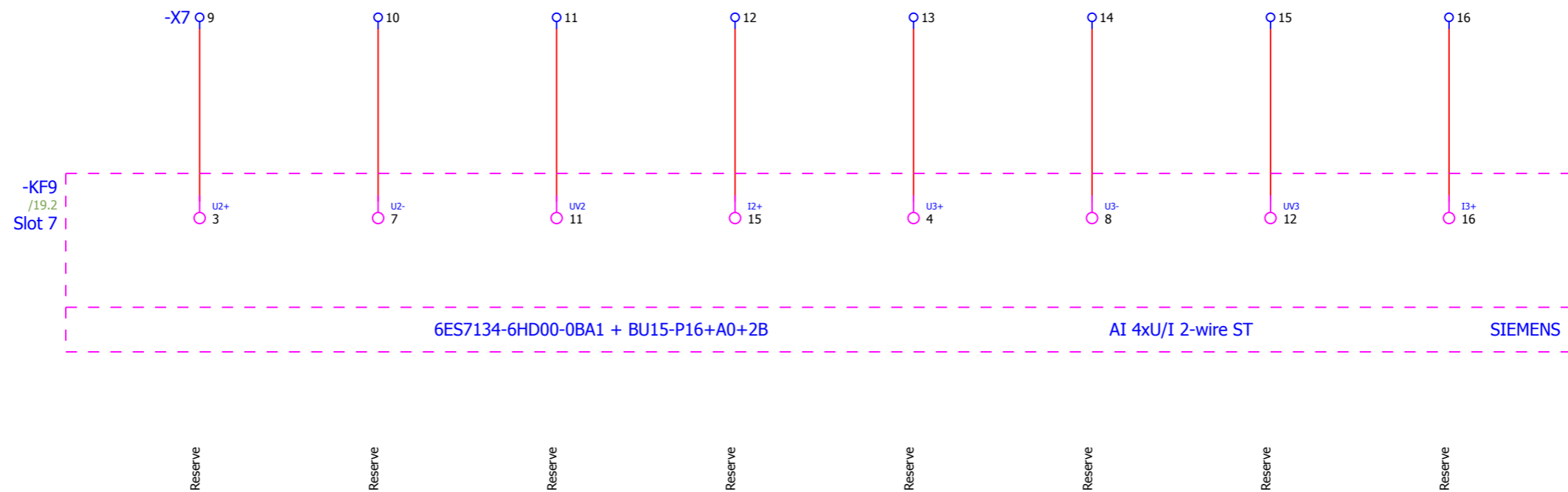
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PAGE TYPE Schematic multi-line
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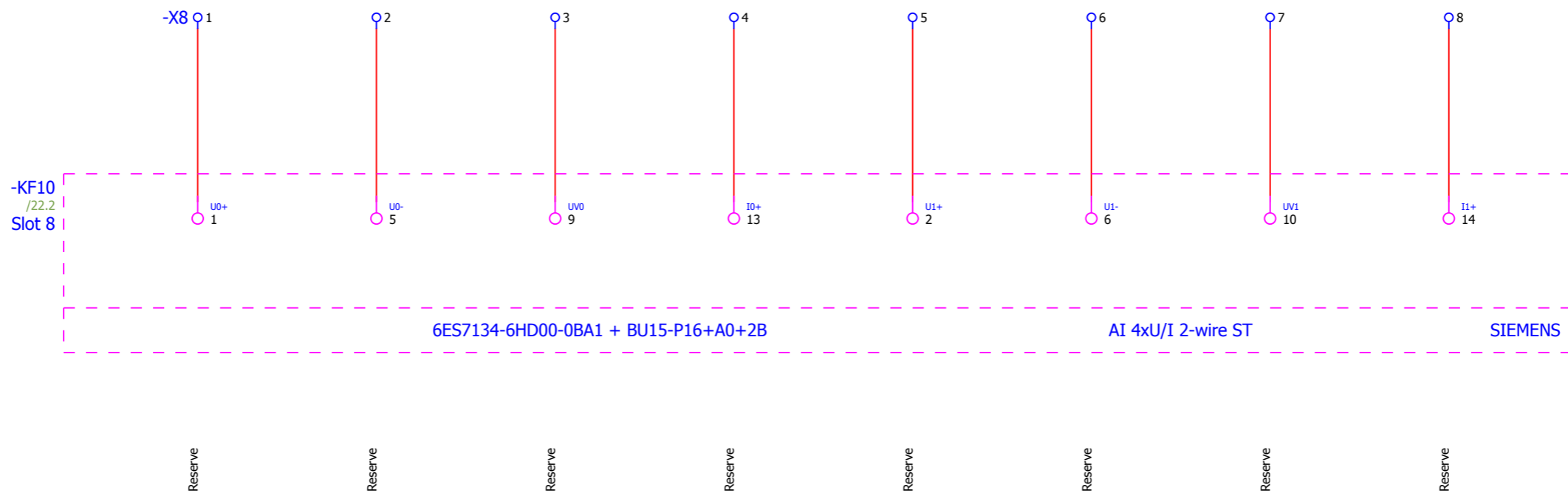
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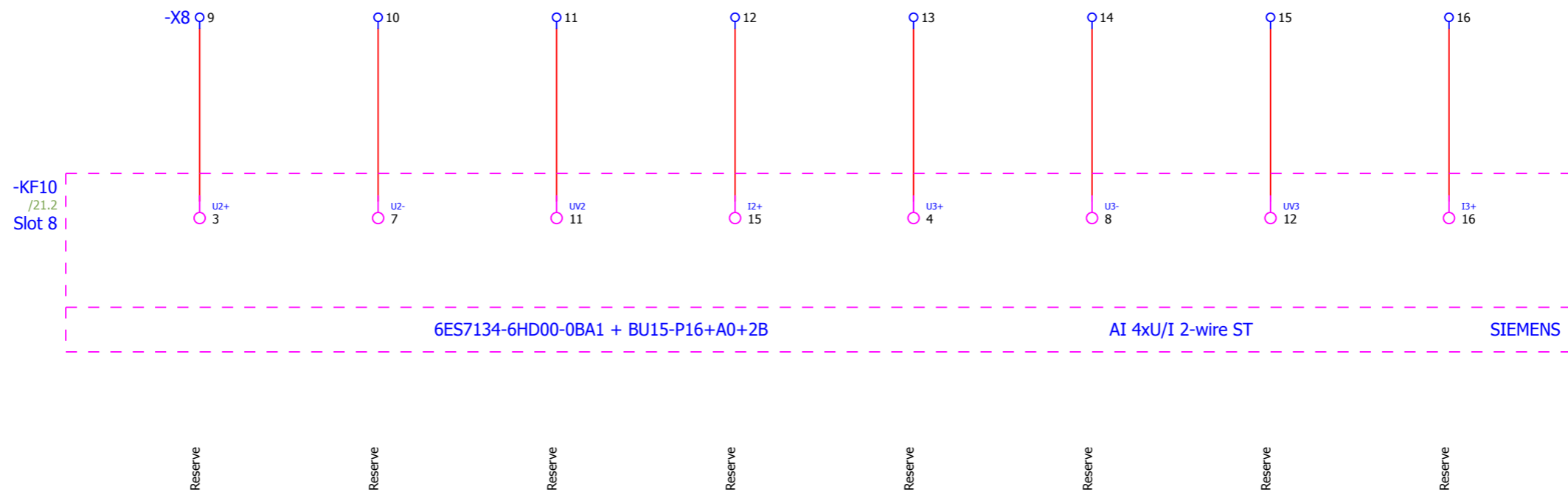
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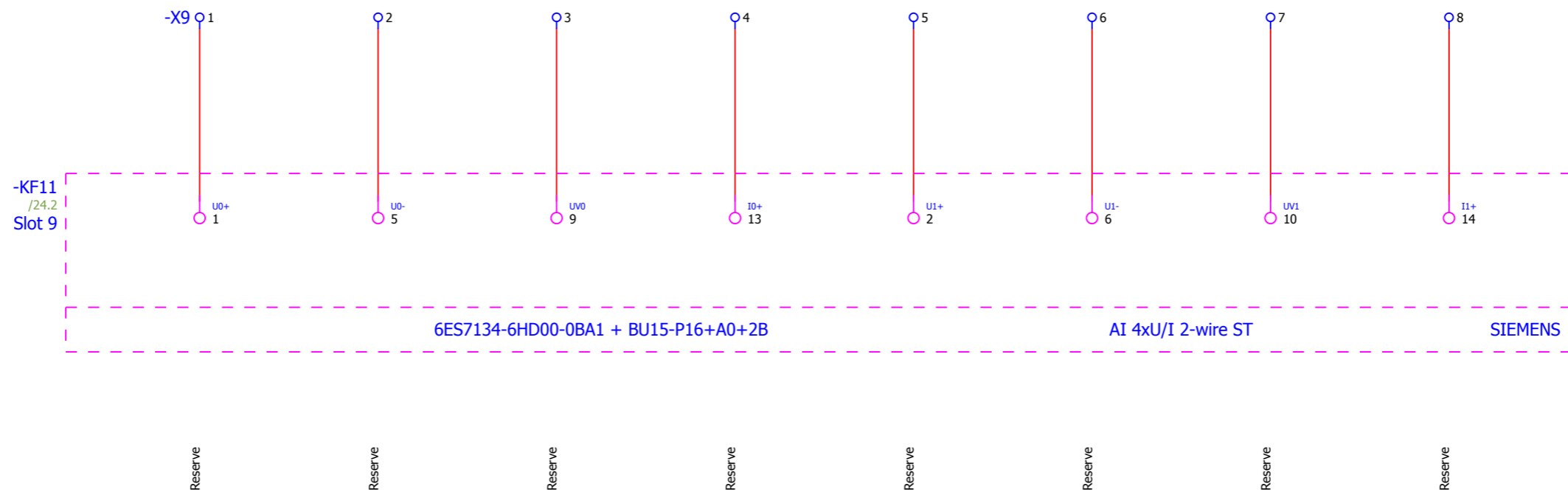
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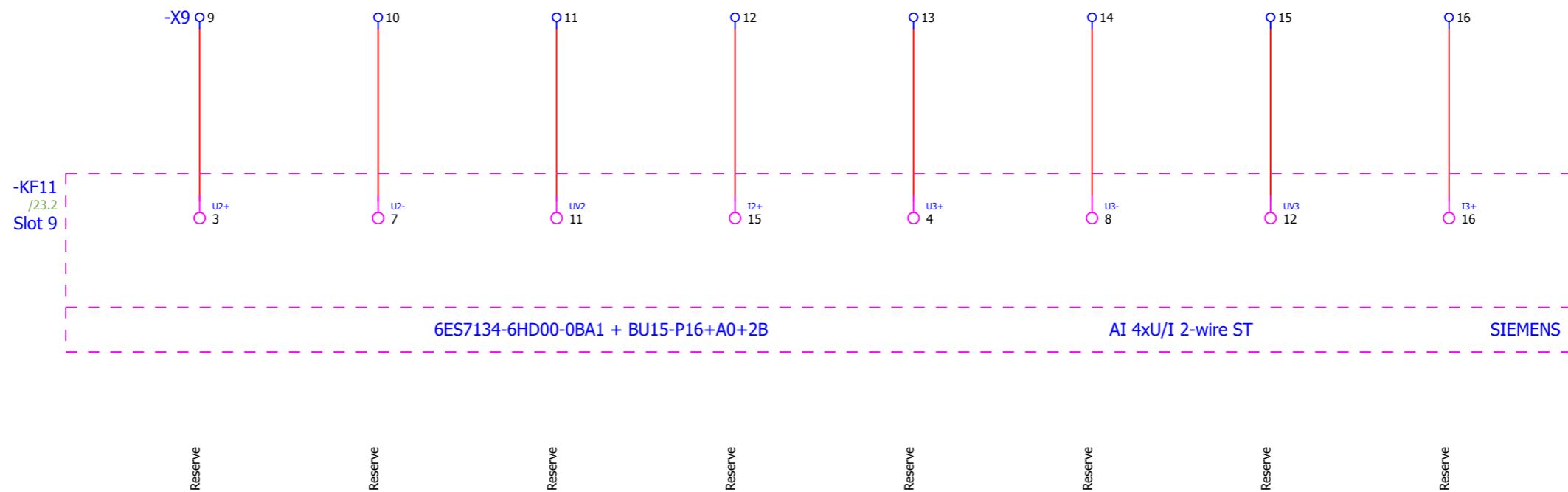
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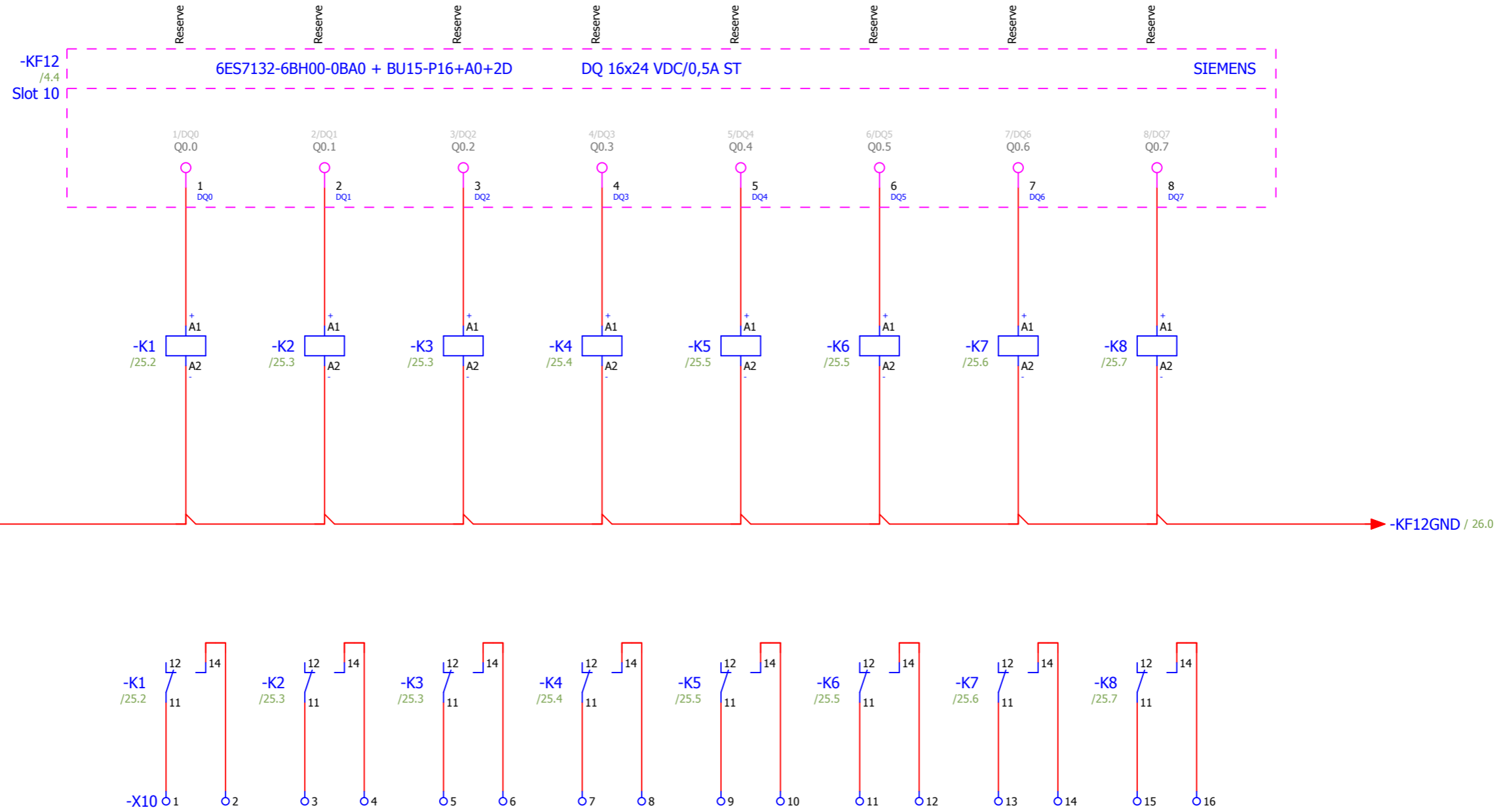
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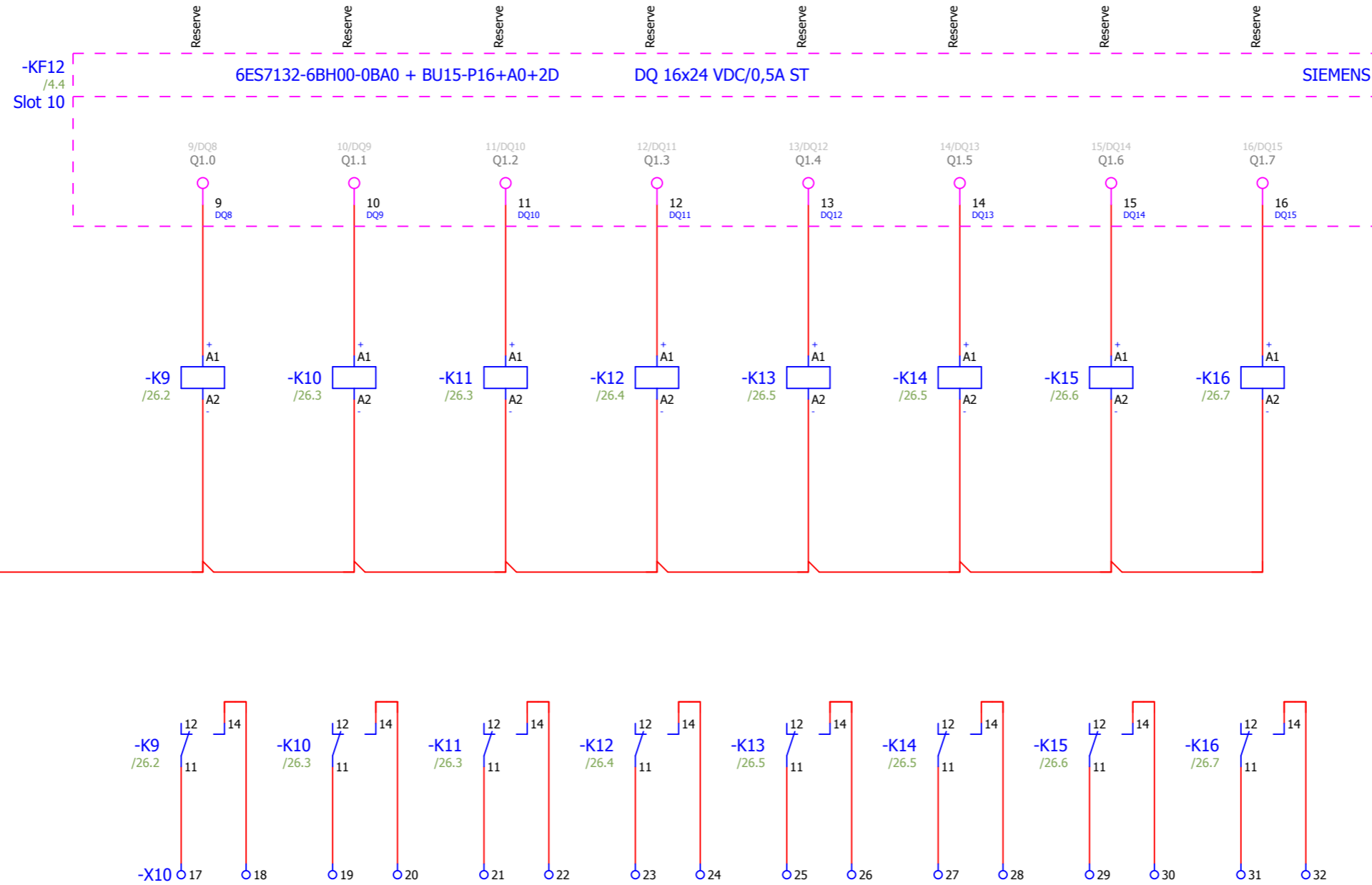
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DATE
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DATE
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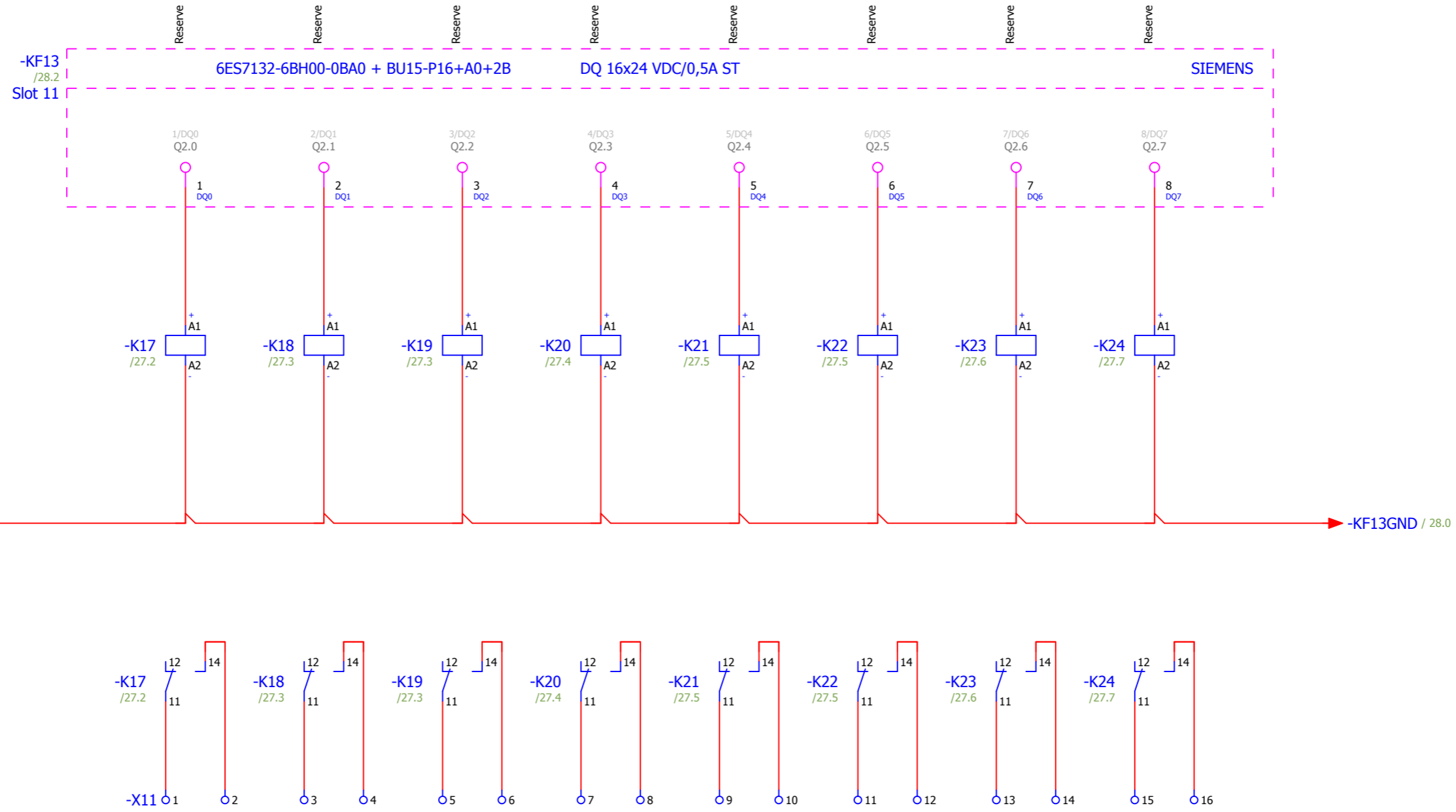
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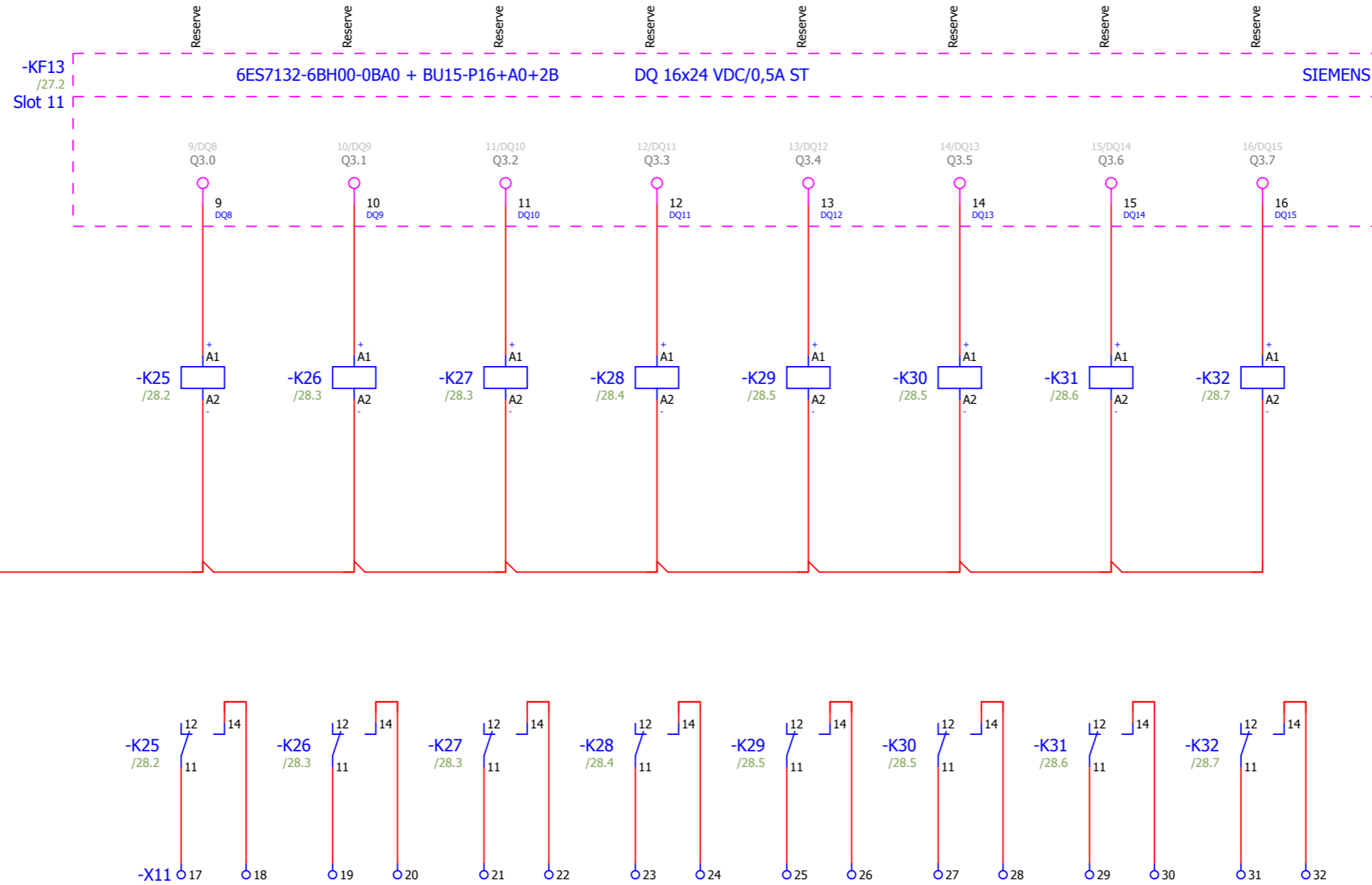
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Schematic multi-line

FUNCTION





REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small> 	DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		CHECKED BY	DATE	PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams		APPROVED BY	DATE	FUNCTION	SHEET =ESS.ACC.F02.K01.U1&FS/27			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.		DESIGN SITE	ESS		NEXT 28			
					MM & ATD	2017-09-01	Accelerator ODH Detection System	ESS-0089356			
					MM		Schematic multi-line	Preliminary	A3	1	2



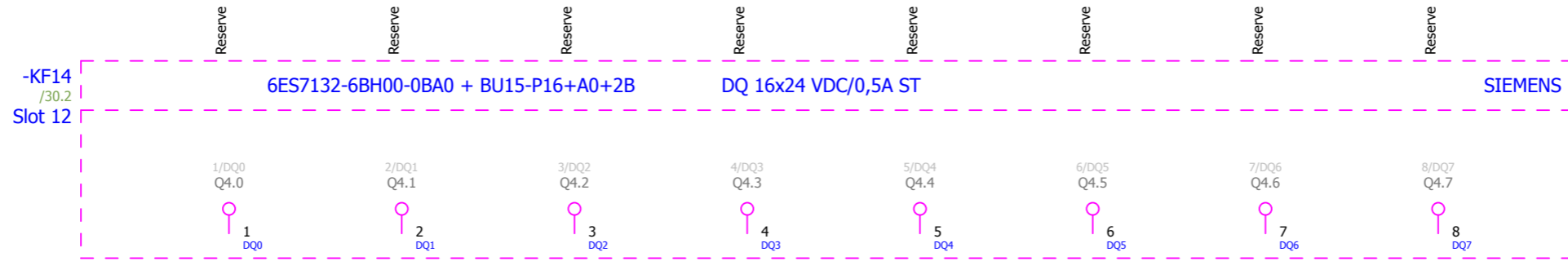
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Schematic multi-line		
FUNCTION			

DRAWING NUMBER (Doc)	ESS-0089356		
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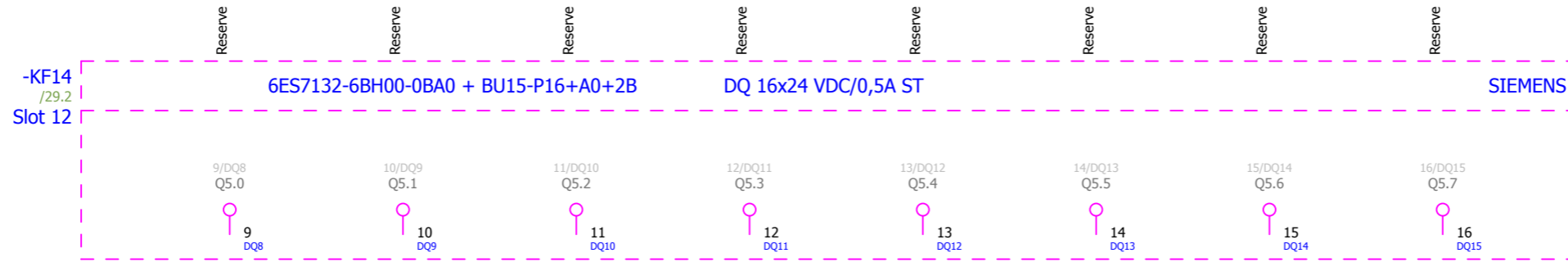
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Schematic multi-line
FUNCTION	

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
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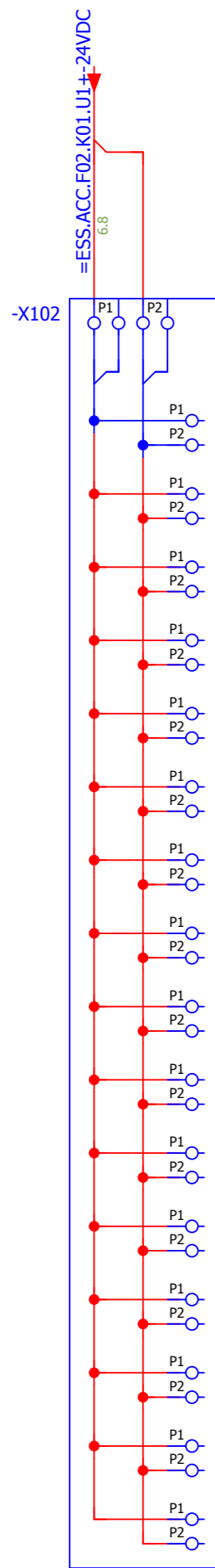
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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Schematic multi-line
FUNCTION	

DRAWING NUMBER (Doc)				ESS-0089356			
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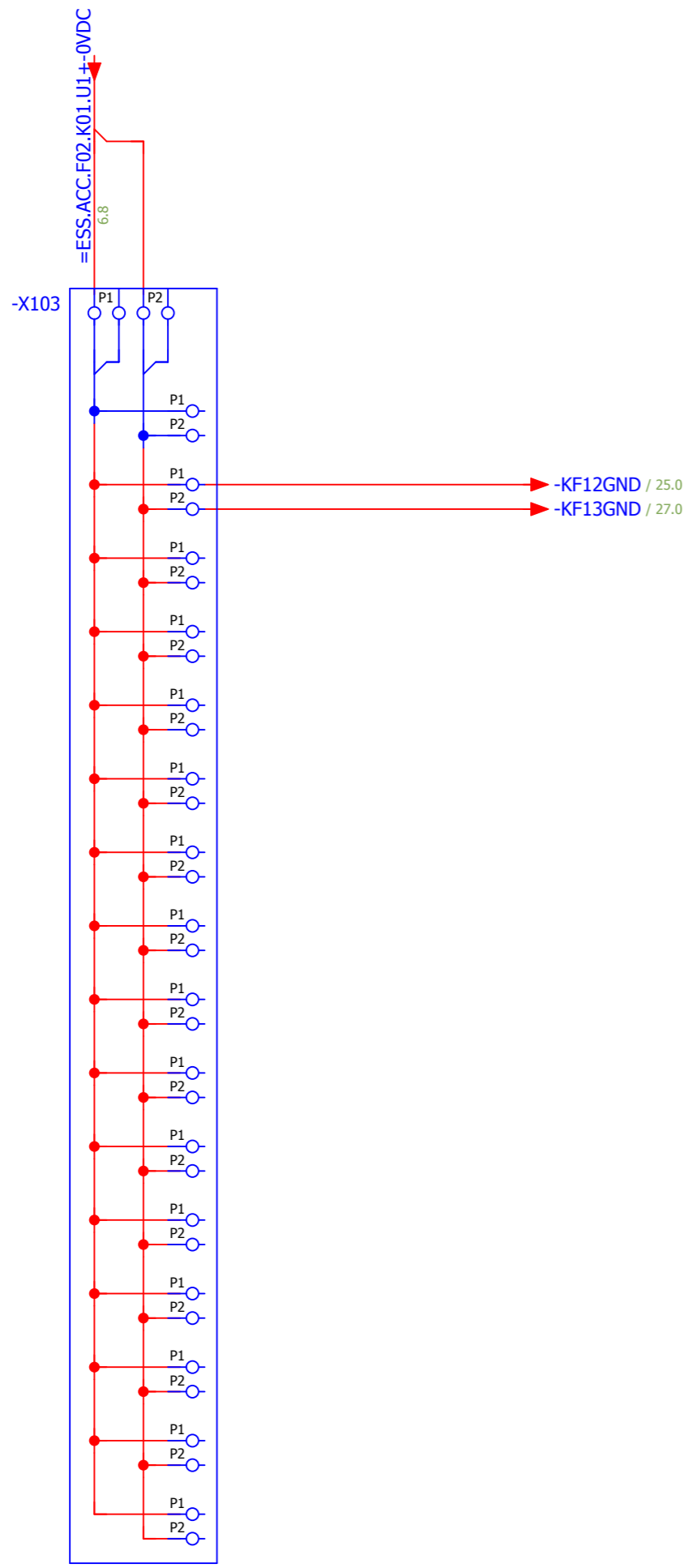
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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Schematic multi-line		
FUNCTION			

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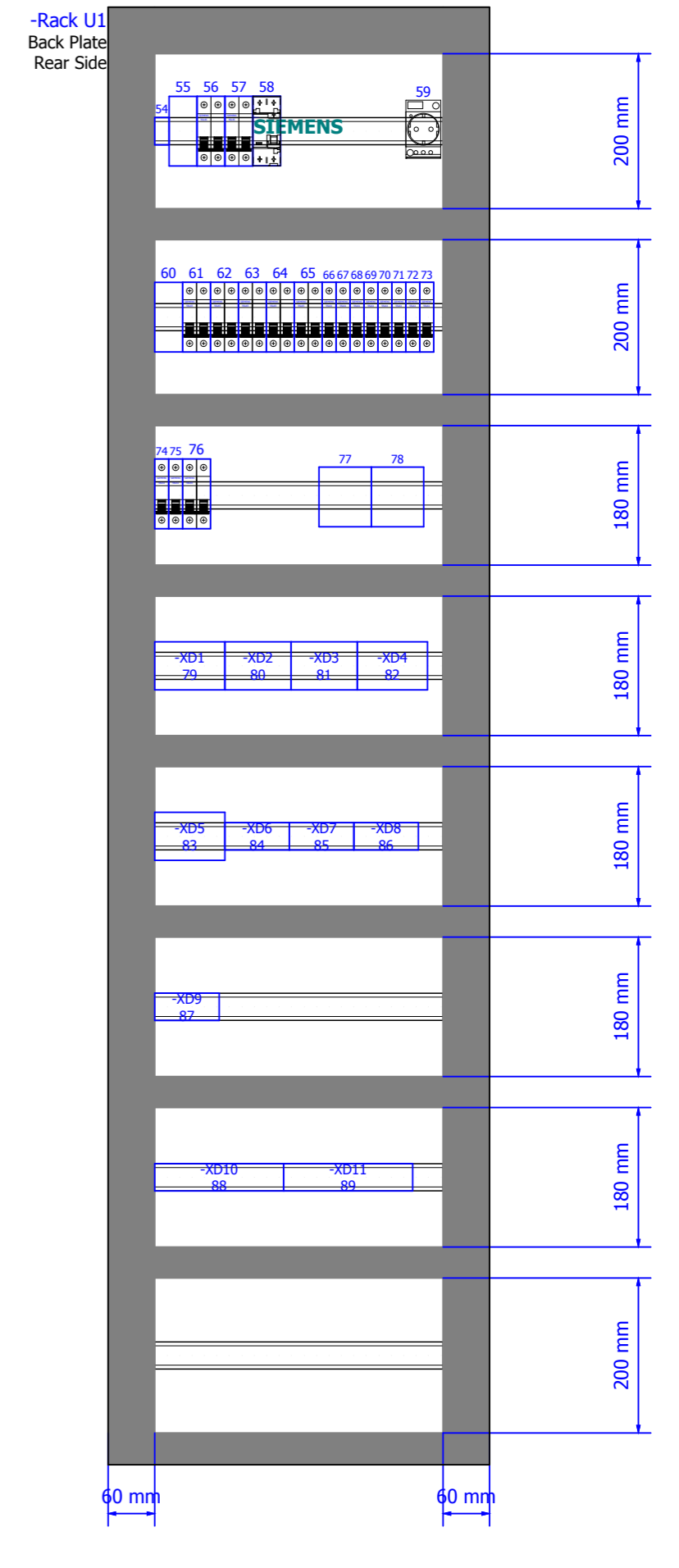
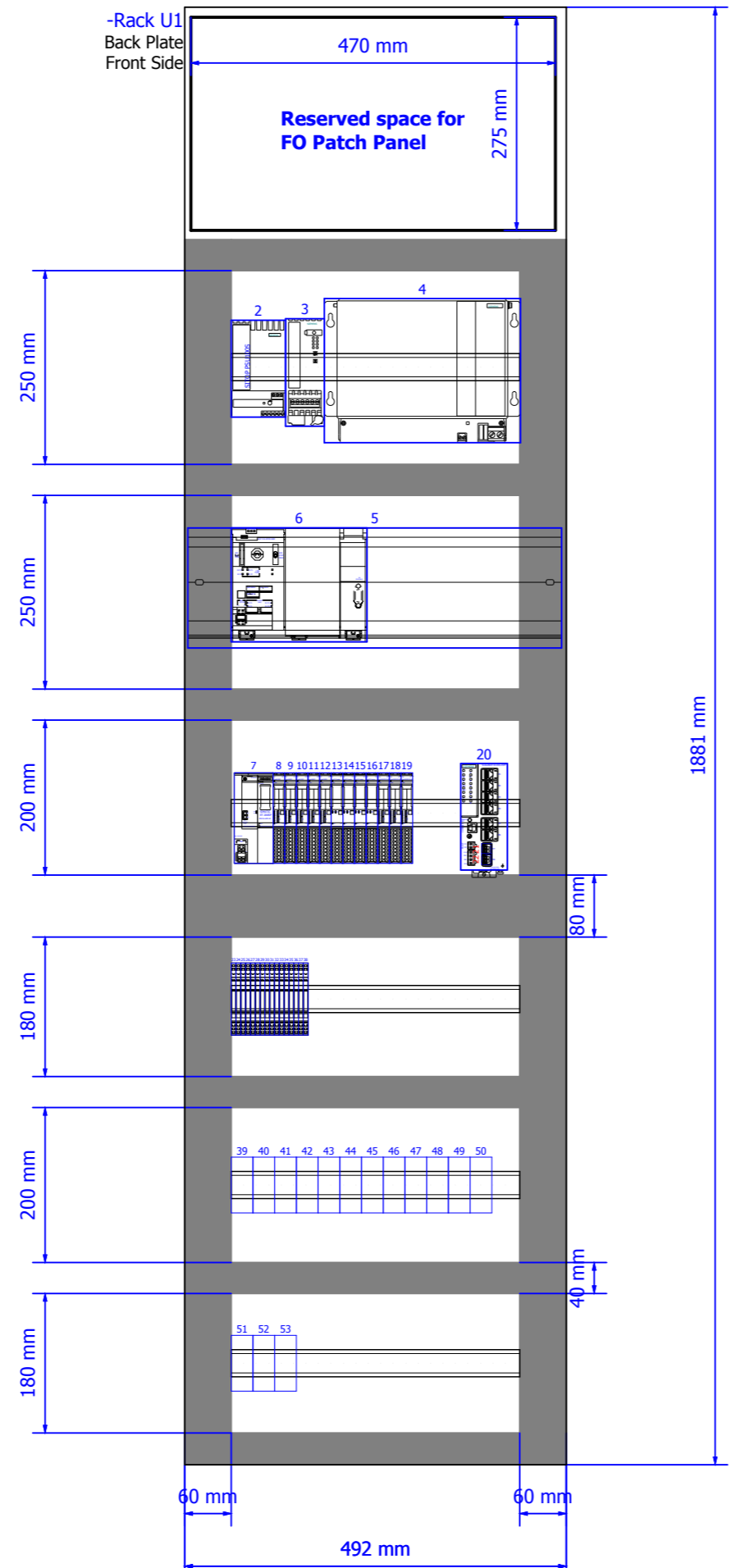
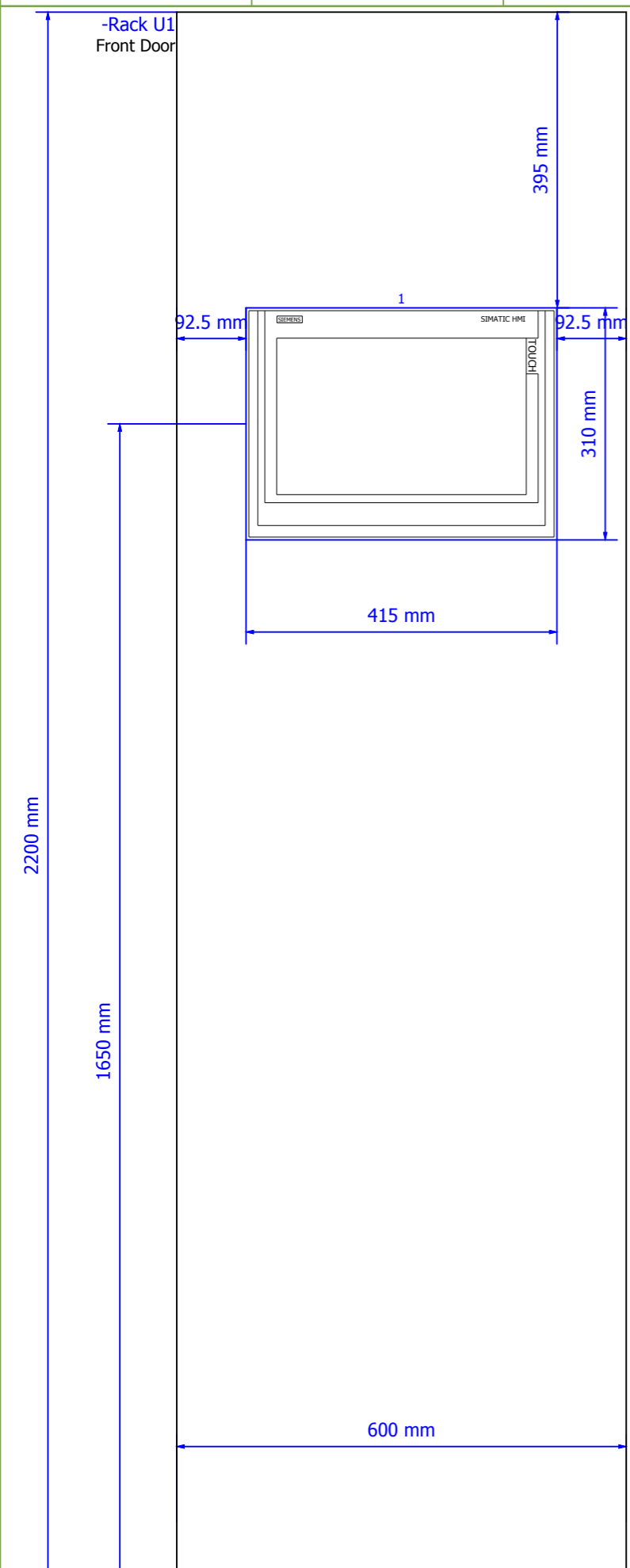
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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Schematic multi-line		
FUNCTION			

DRAWING NUMBER (Doc)	ESS-0089356		
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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Panel layout
FUNCTION	

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Enclosure legend

F18_001

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3	RB1	6EP4134-3AB00-2AY0	SIE.6EP4134-3AB00-2AY0	Siemens	
4	GB1	6EP4135-0GB00-0AY0	SIE.6EP4135-0GB00-0AY0	Siemens	
5	KF15	6ES7590-1AE80-0AA0	SIE.6ES7590-1AE80-0AA0	Siemens	
6	KF1	6ES7518-4FP00-0AB0	SIE.6ES7518-4FP00-0AB0	Siemens	
7	KF2	6ES7155-6AU00-0CN0 / 6ES7193-6AR00-0AA0	SIE.6ES7155-6AU00-0CN0+BA_2xRJ45	Siemens	
8	KF3	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0DA0	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2D	Siemens	
9	KF4	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
10	KF5	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
11	KF6	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
12	KF7	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
13	KF8	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0DA0	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0+2D	Siemens	
14	KF9	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0BA0	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0+2B	Siemens	
15	KF10	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0BA0	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0+2B	Siemens	
16	KF11	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0BA0	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0+2B	Siemens	
17	KF12	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0DA0	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0+2D	Siemens	
18	KF13	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
19	KF14	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
20	XF1	6GK5206-2BS00-2AC2	SIE.6GK5206-2BS00-2AC2	Siemens	
21	XF1	6GK5991-1AF00-8AA0	SIE.6GK5991-1AF00-8AA0	Siemens	
22	XF1	6GK5991-1AF00-8AA0	SIE.6GK5991-1AF00-8AA0	Siemens	
23	K1	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
24	K2	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
25	K3	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
26	K4	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
27	K5	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
28	K6	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
29	K7	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
30	K8	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
31	K9	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
32	K10	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
33	K11	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
34	K12	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
35	K13	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
36	K14	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
37	K15	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
38	K16	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
39	K18	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
40	K19	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
41	K20	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
42	K21	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
43	K22	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
44	K23	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
45	K24	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
46	K25	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
47	K26	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
48	K27	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
49	K28	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
50	K29	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
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52	K31	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
53	K32	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
54	XD0				
55	QB1	5TL1232-0	5TL1232-0	Siemens	
56	FC1	5SL6516-7	SIE.5SL6516-7	Siemens	
57	FC2	5SL6510-7	SIE.5SL6510-7	Siemens	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
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1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE ESS				NEXT 2.1			



Enclosure legend

F18_001

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60	QB2	5TL1232-0	5TL1232-0	Siemens	
61	FC3	5SL6504-7	SIE.5SL6504-7	Siemens	
62	FC4	5SL6504-7	SIE.5SL6504-7	Siemens	
63	FC5	5SL6504-7	SIE.5SL6504-7	Siemens	
64	FC6	5SL6504-7	SIE.5SL6504-7	Siemens	
65	FC7	5SL6504-7	SIE.5SL6504-7	Siemens	
66	FC8	5SL6101-7	SIE.5SL6101-7	Siemens	
67	FC9	5SL6101-7	SIE.5SL6101-7	Siemens	
68	FC10	5SL6101-7	SIE.5SL6101-7	Siemens	
69	FC11	5SL6101-7	SIE.5SL6101-7	Siemens	
70	FC12	5SL6101-7	SIE.5SL6101-7	Siemens	
71	FC13	5SL6101-7	SIE.5SL6101-7	Siemens	
72	FC14	5SL6101-7	SIE.5SL6101-7	Siemens	
73	FC15	5SL6101-7	SIE.5SL6101-7	Siemens	
74	FC16	5SL6101-7	SIE.5SL6101-7	Siemens	
75	FC17	5SL6101-7	SIE.5SL6101-7	Siemens	
76	FC18	5SL6504-7	SIE.5SL6504-7	Siemens	
79	XD1				
80	XD2				
81	XD3				
82	XD4				
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85	XD7				
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87	XD9				
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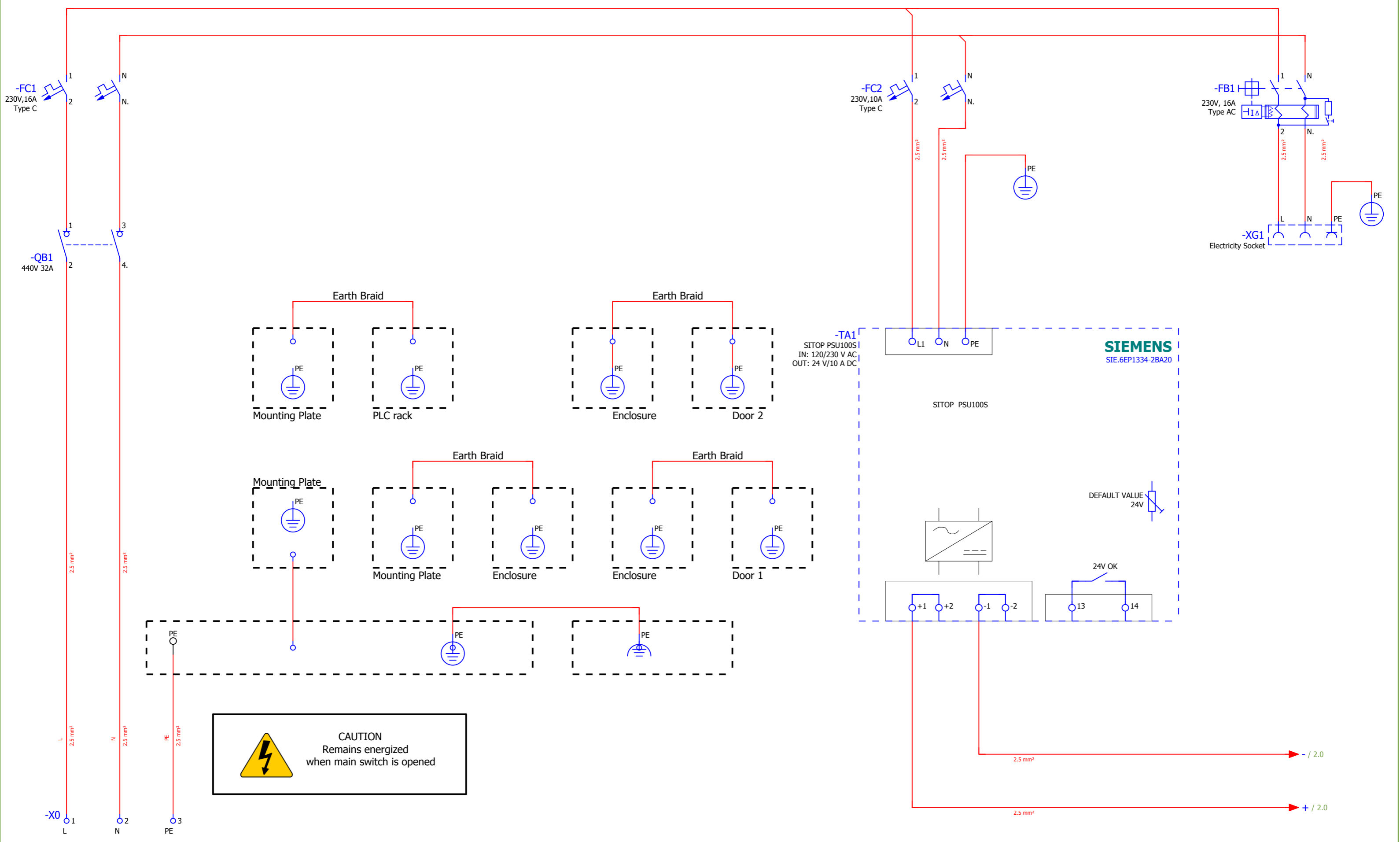
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CHECKED BY	MM	DATE	
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DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Enclosure legend		
FUNCTION			

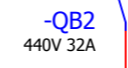
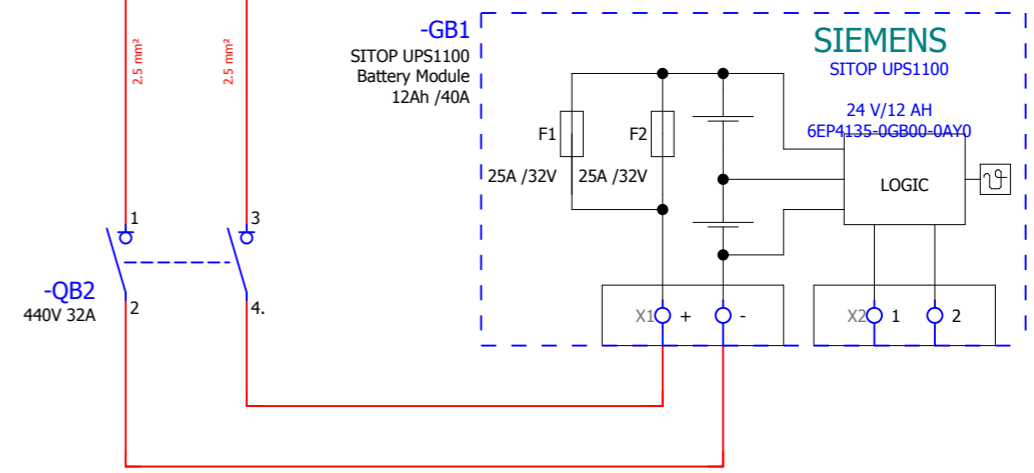
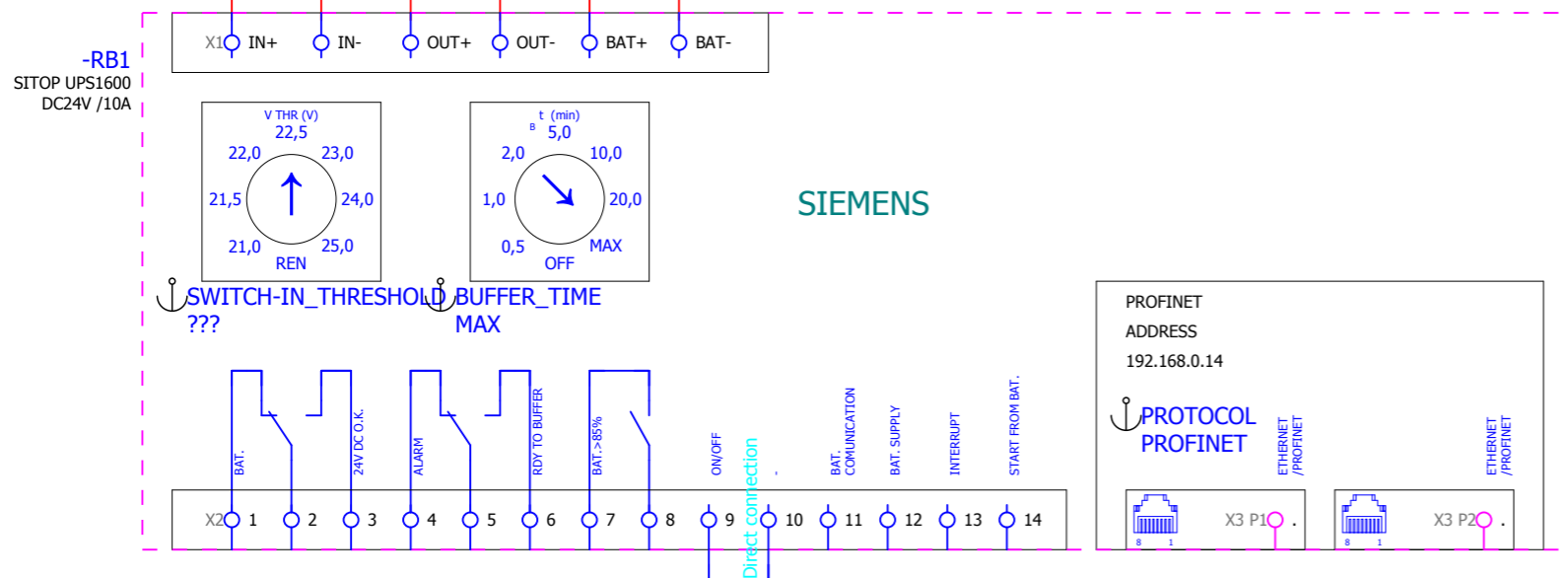
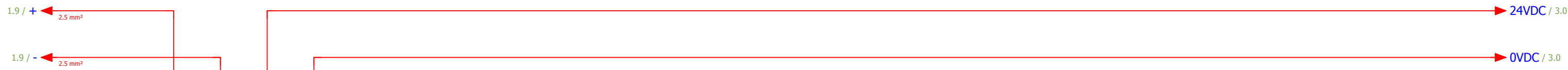
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 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small>	DRAWN BY MM & ATD	DATE 2017-09-01	DRAWING TITLE Accelerator ODH Detection System	DRAWING NUMBER (Doc) ESS-0089356
	CHECKED BY MM	DATE 01-Sep-17	PAGE TYPE Schematic multi-line	LIFECYCLE LABEL Preliminary
	APPROVED BY SLB 	DESIGN SITE ESS	FUNCTION - / 2.0 + / 2.0	PAGE SIZE A3

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NEXT 2		



CAUTION
Remains energized
when main switch is opened

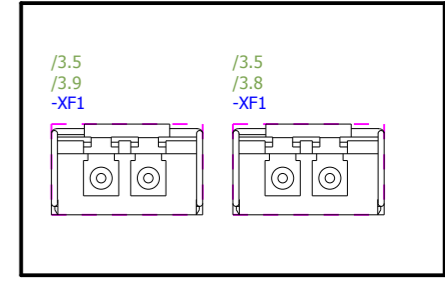
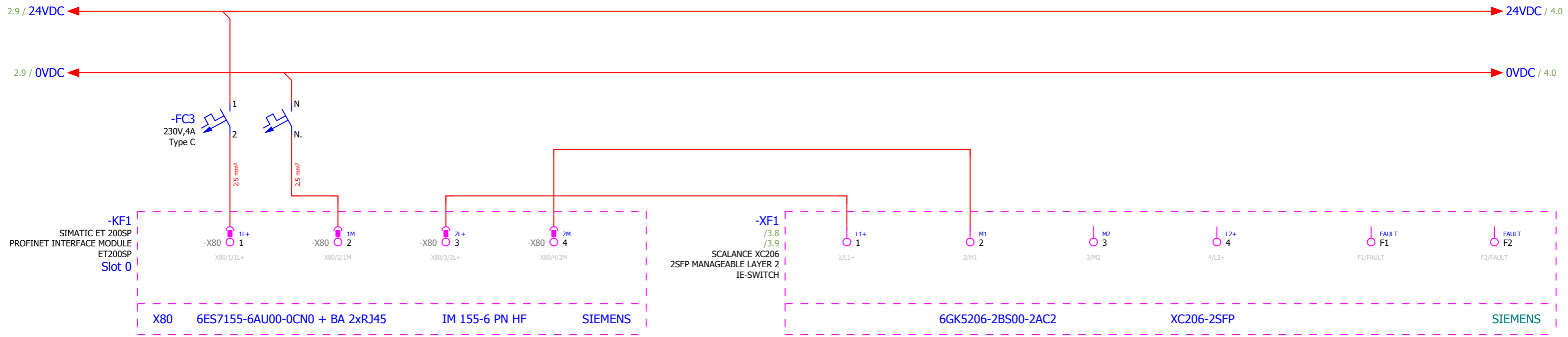
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CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Schematic multi-line
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
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**SFP pluggable transceiver for media modules
100MBIT/S LC-PORT OPTICAL**

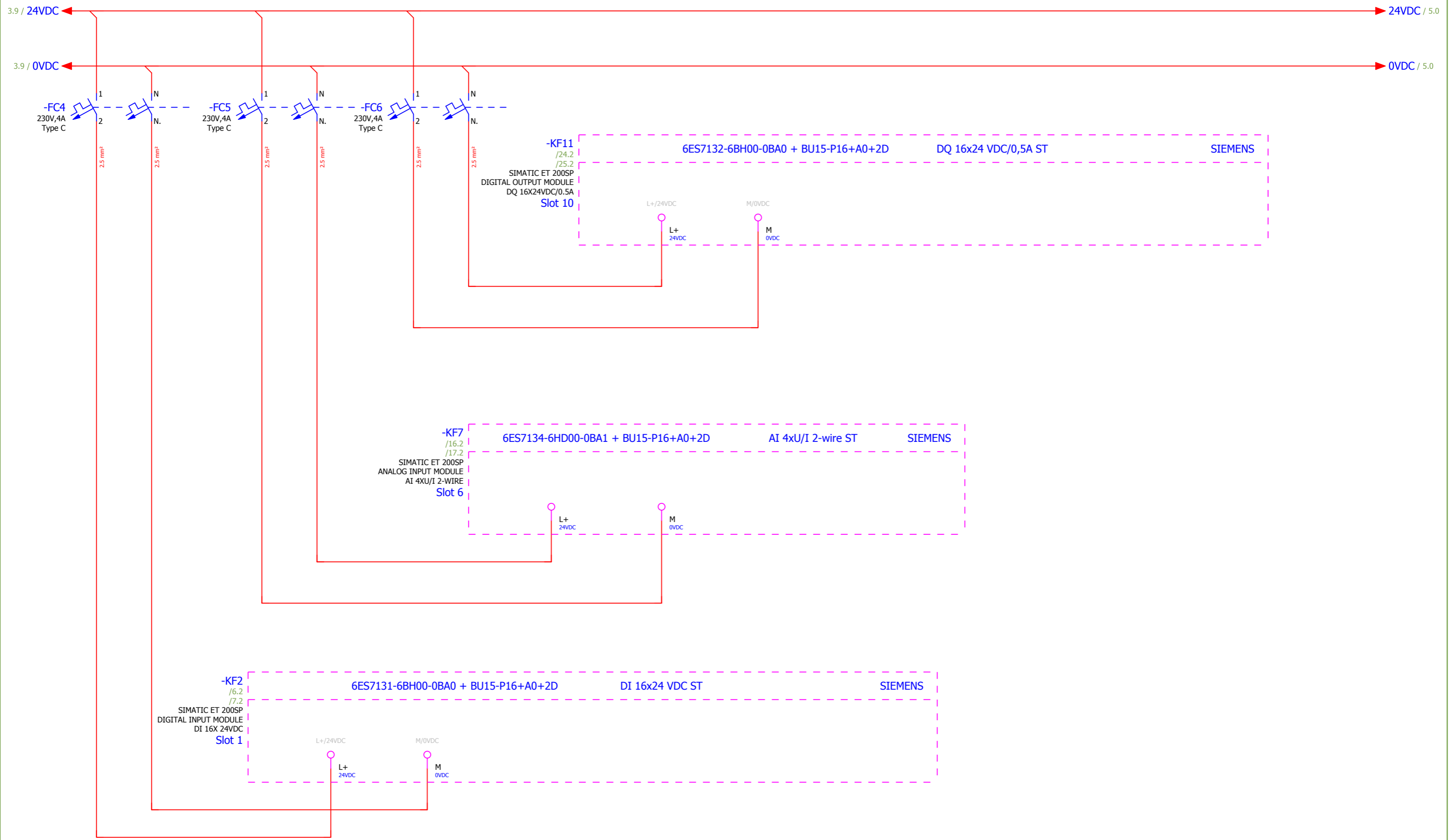
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CHECKED BY MM	DATE
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DESIGN SITE ESS	

DRAWING TITLE Accelerator ODH Detection System
PAGE TYPE Schematic multi-line
FUNCTION

DRAWING NUMBER (Doc) ESS-0089356	PAGE SIZE A3	PAGE SCALE 1	REV 2
LIFECYCLE LABEL Preliminary	SHEET =ESS.ACC.F02.K01.U2&FS/3		
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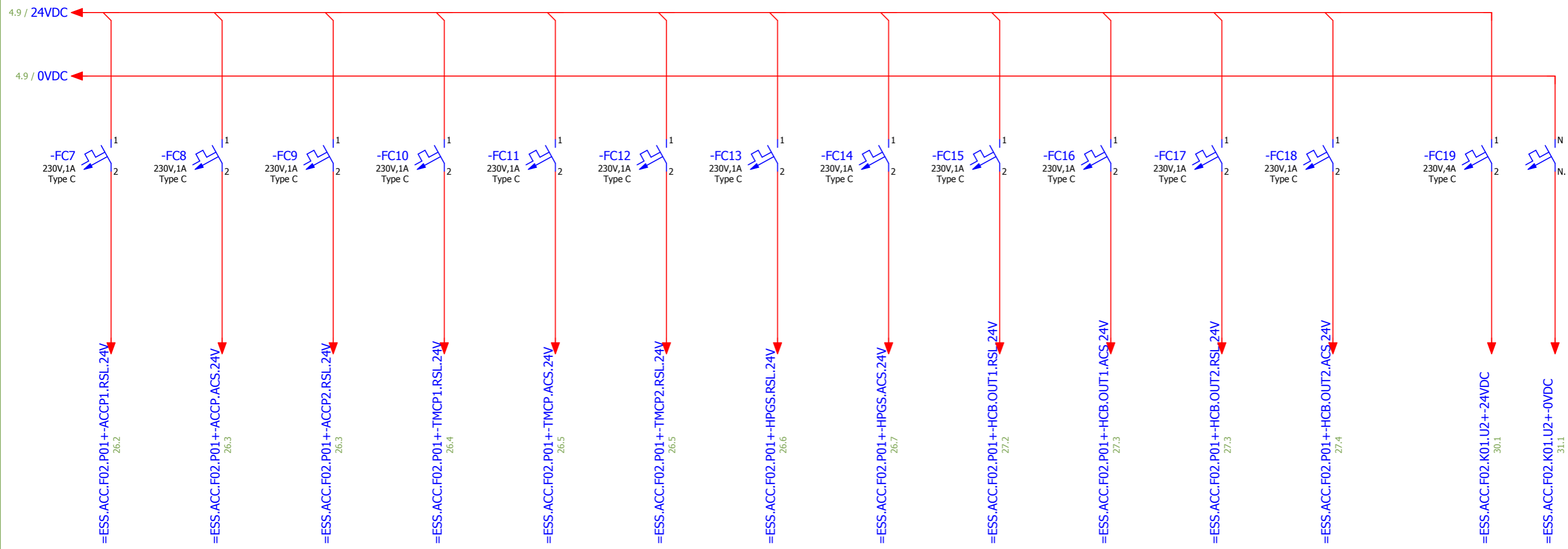
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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

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PAGE TYPE	Schematic multi-line
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
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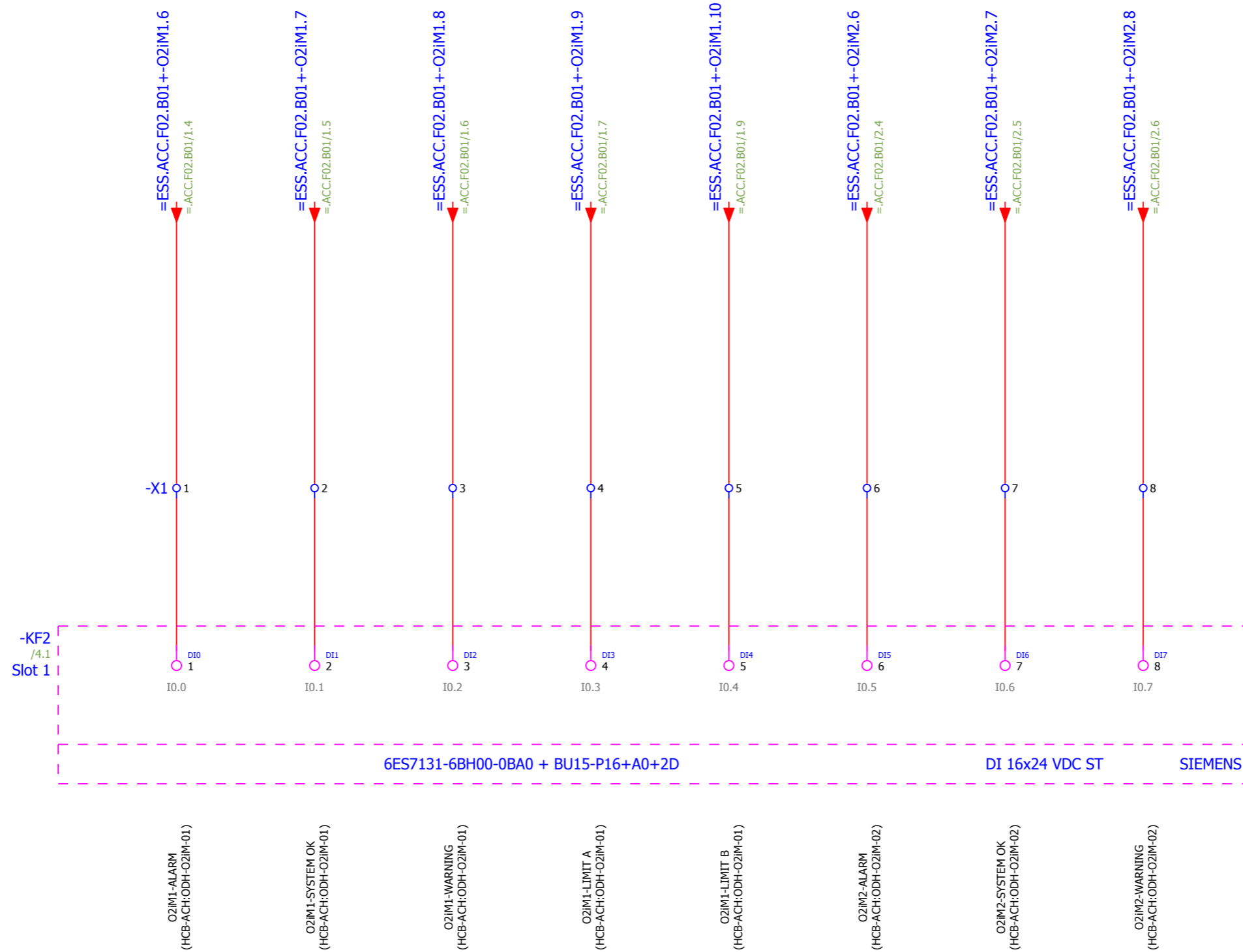
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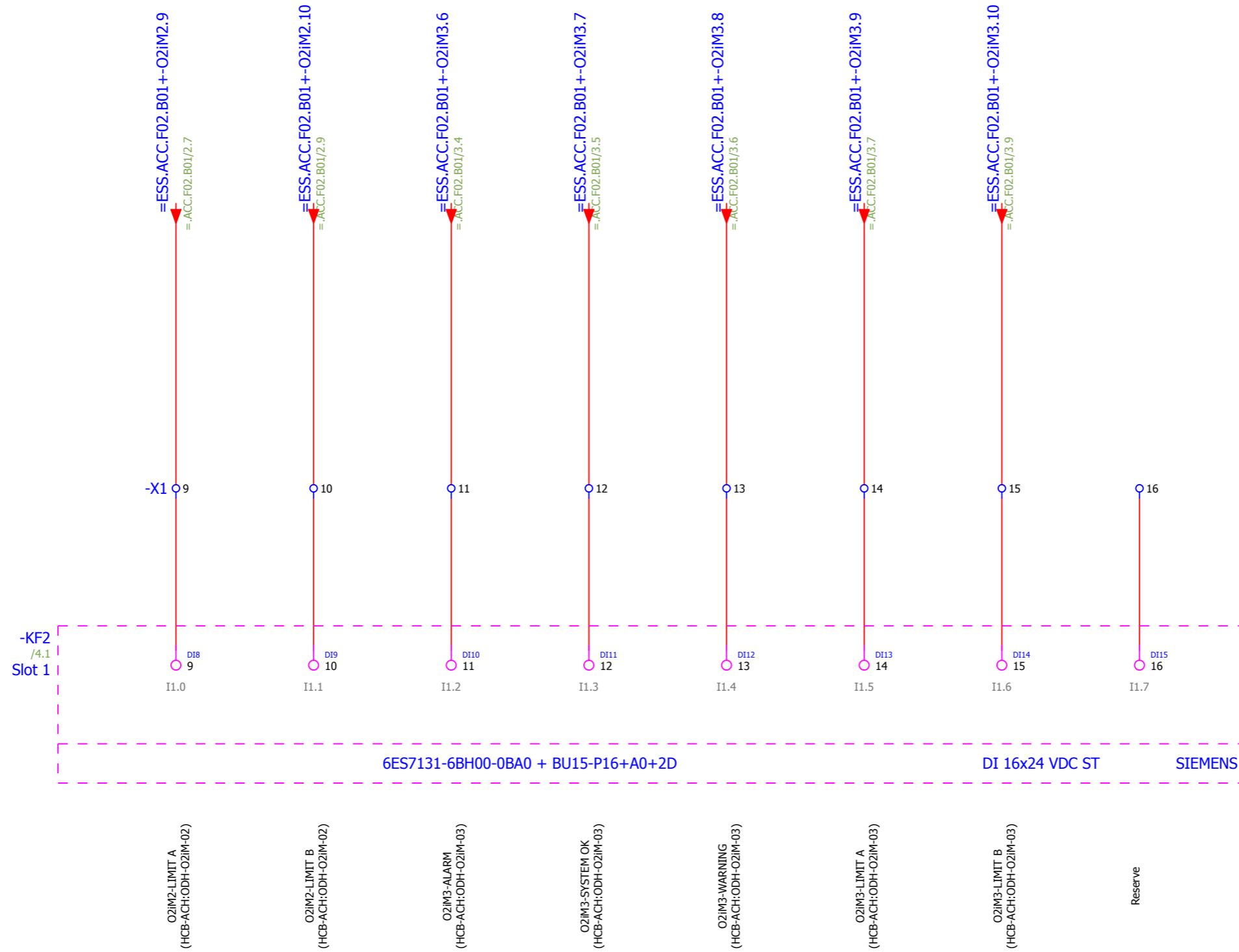
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FUNCTION	

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LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small> 	DRAWN BY MM & ATD	DATE 2017-09-01	DRAWING TITLE Accelerator ODH Detection System	DRAWING NUMBER (Doc) ESS-0089356			
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		CHECKED BY MM	DATE	PAGE TYPE Schematic multi-line	LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams		APPROVED BY SLB	DATE 01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.K01.U2&FS/6			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.		DESIGN SITE ESS			NEXT 7			



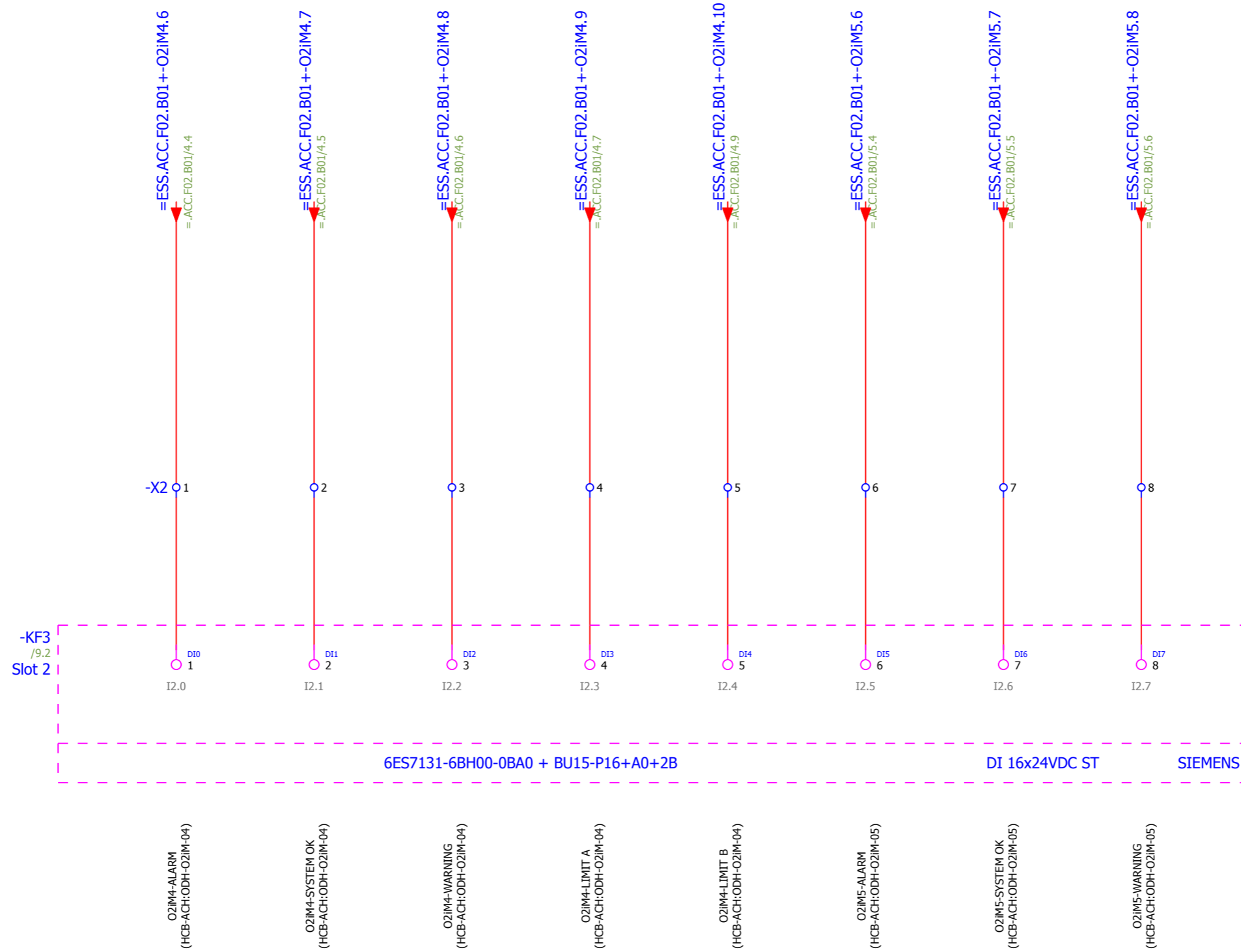
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2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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DRAWING TITLE	Accelerator ODH Detection System
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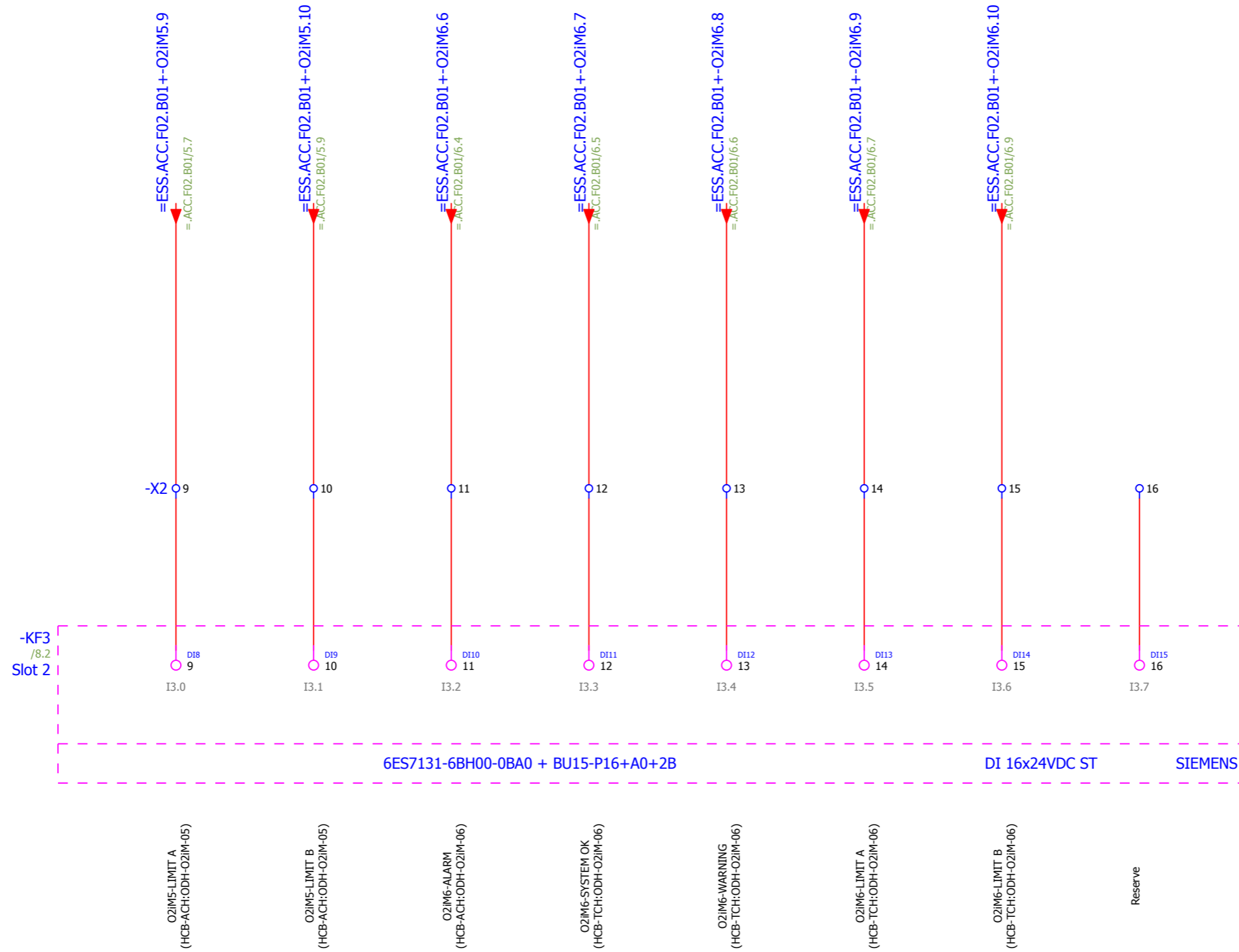
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2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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DRAWING TITLE	Accelerator ODH Detection System
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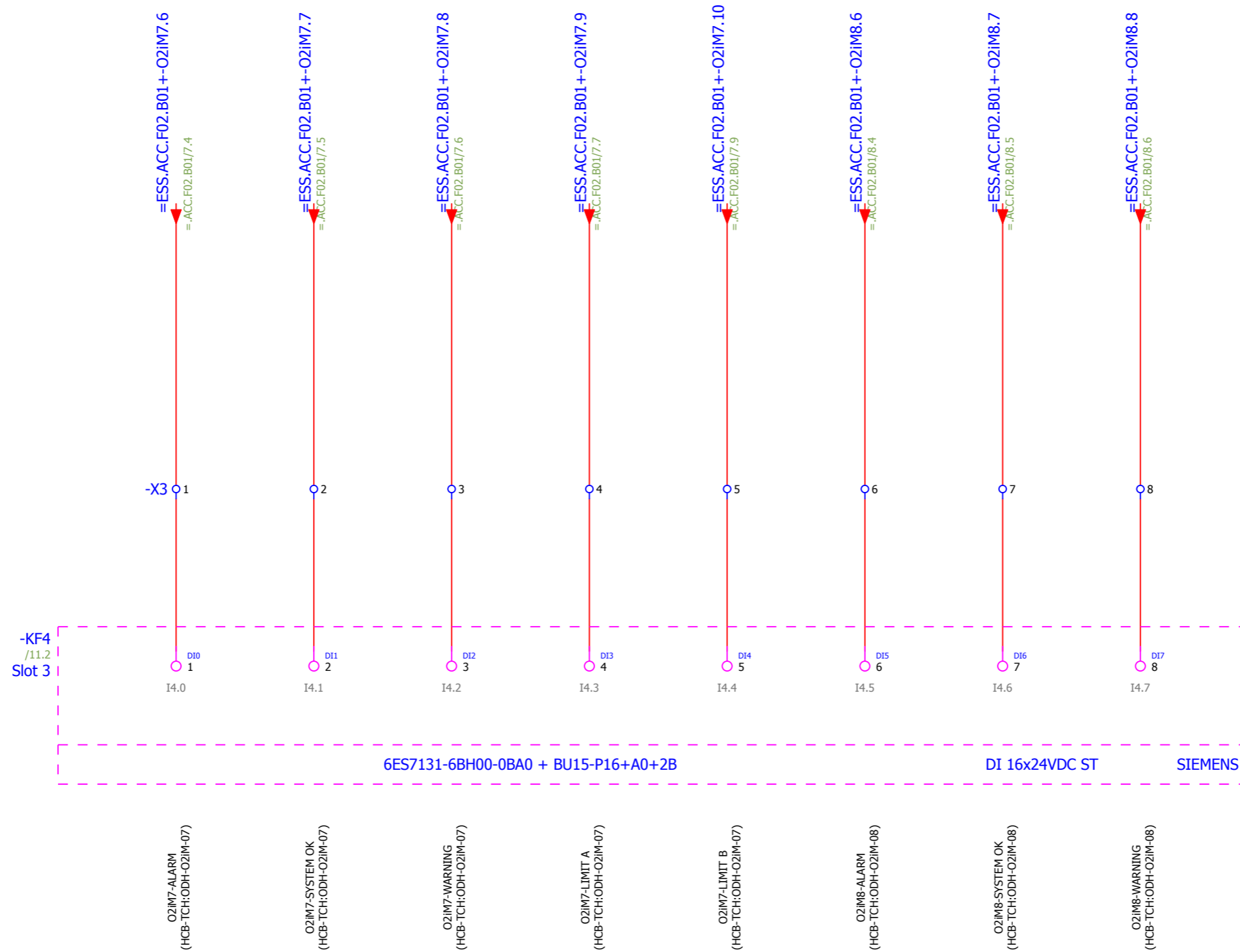
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DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Schematic multi-line
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1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
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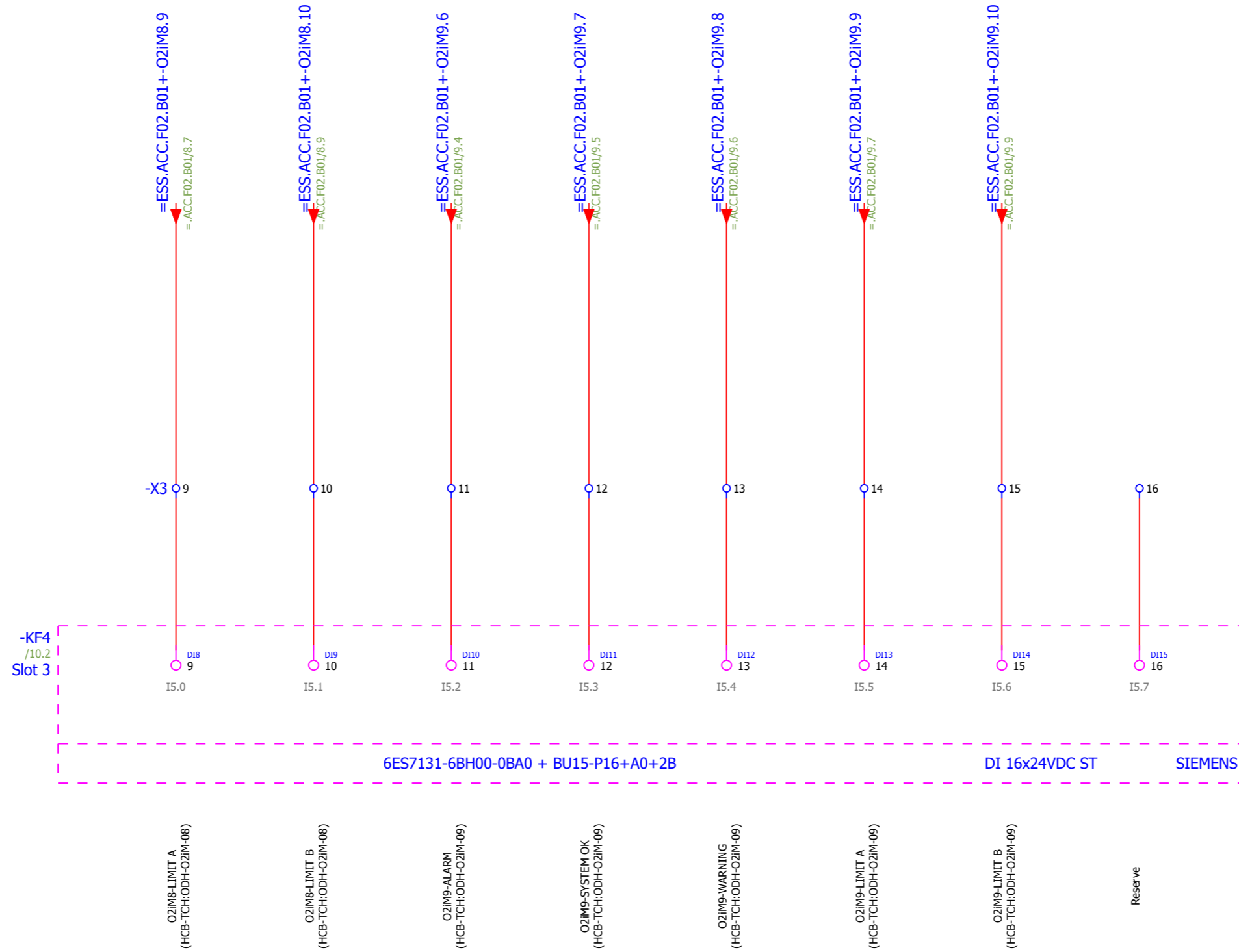


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DATE: 2017-09-01
 DATE: 01-Sep-17

ePLAN
electric 8 V2.5.4

DRAWING TITLE: Accelerator ODH Detection System
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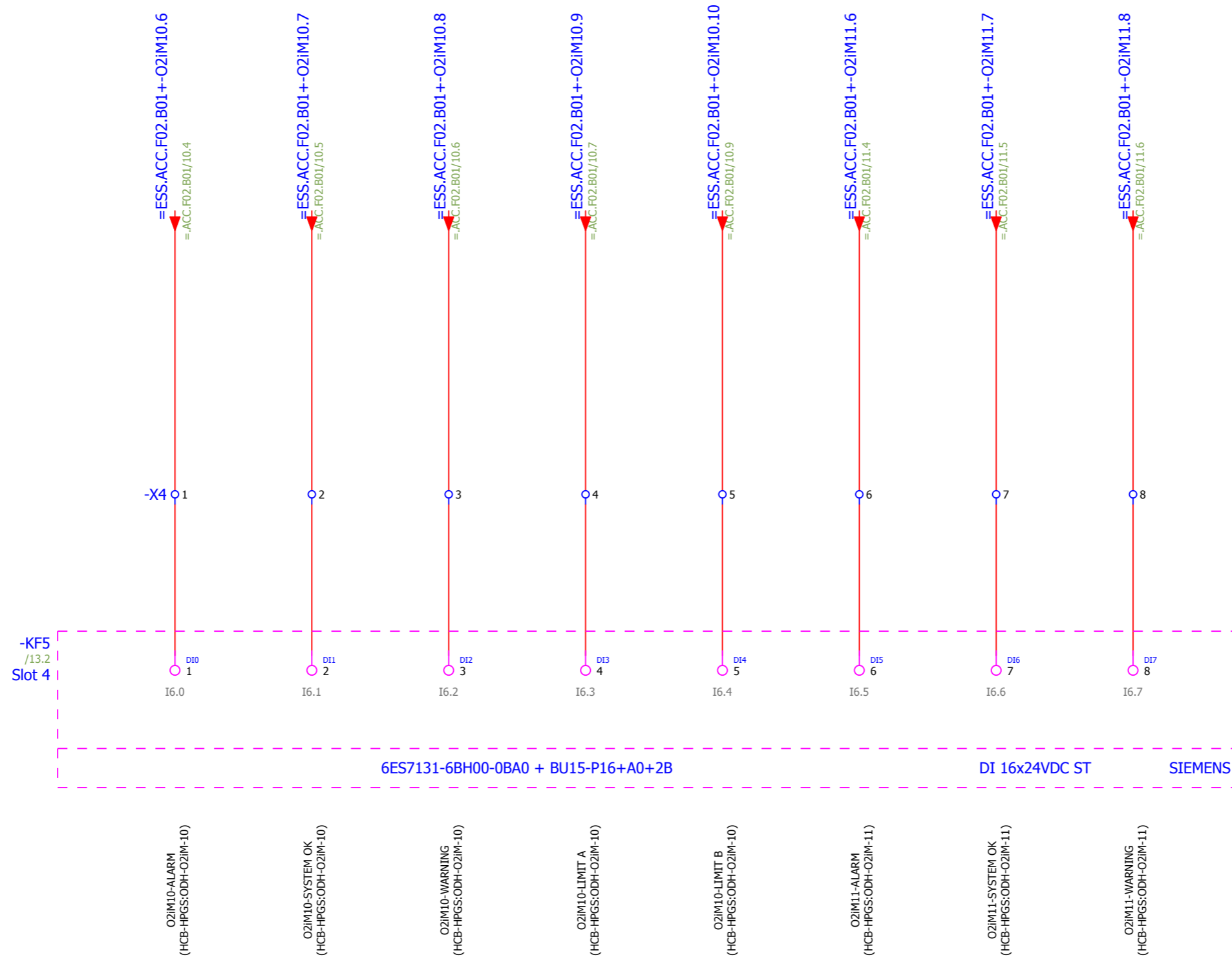
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DRAWING TITLE	Accelerator ODH Detection System
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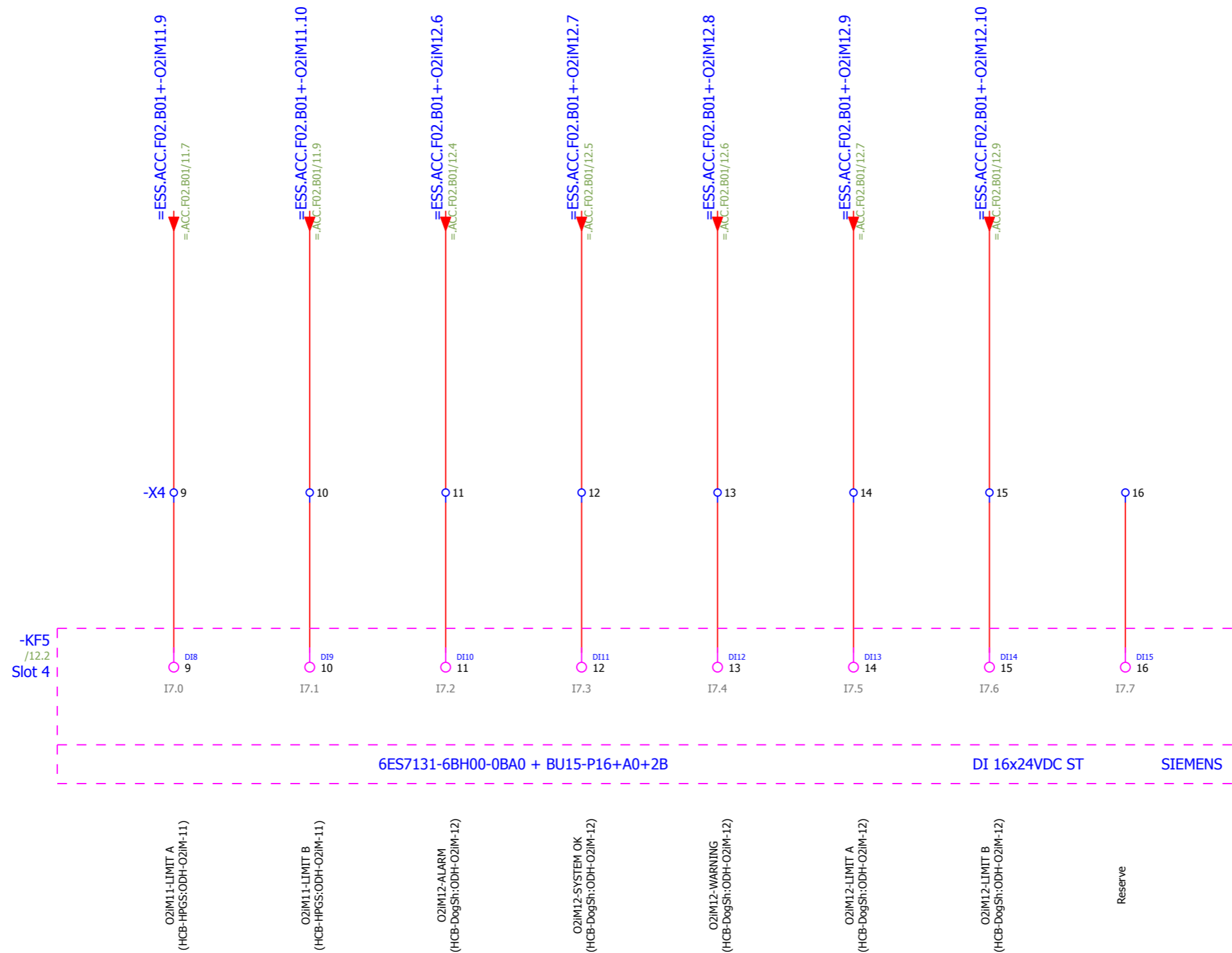
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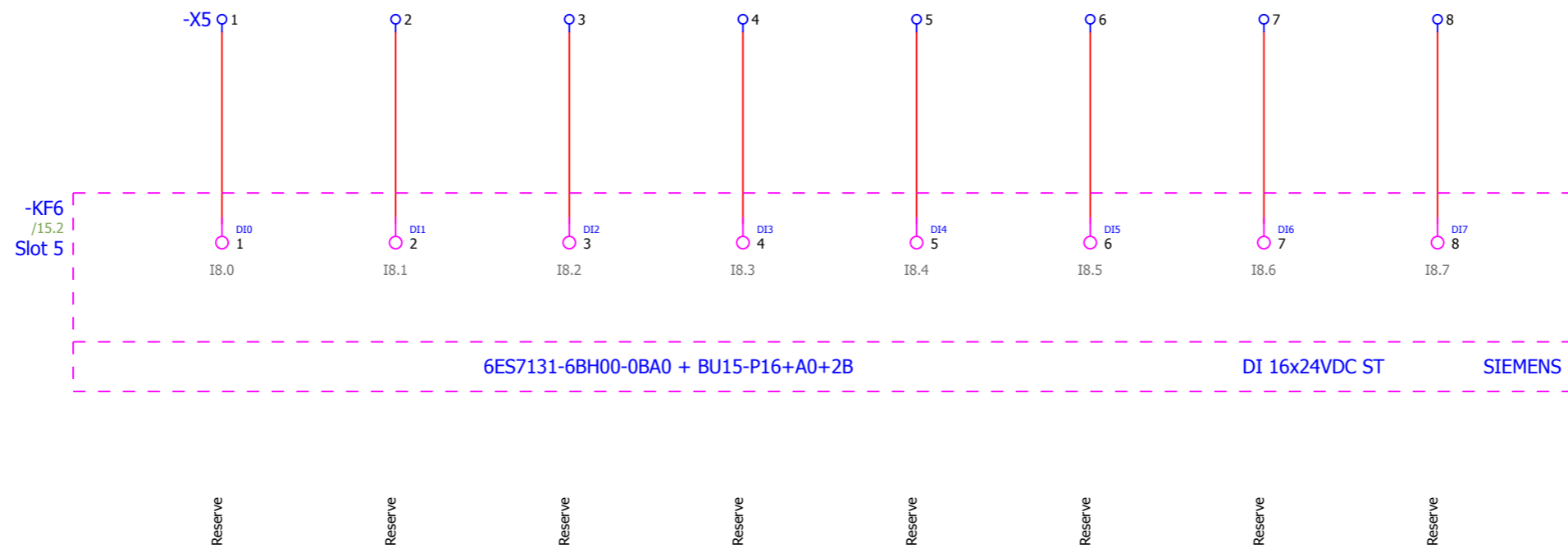
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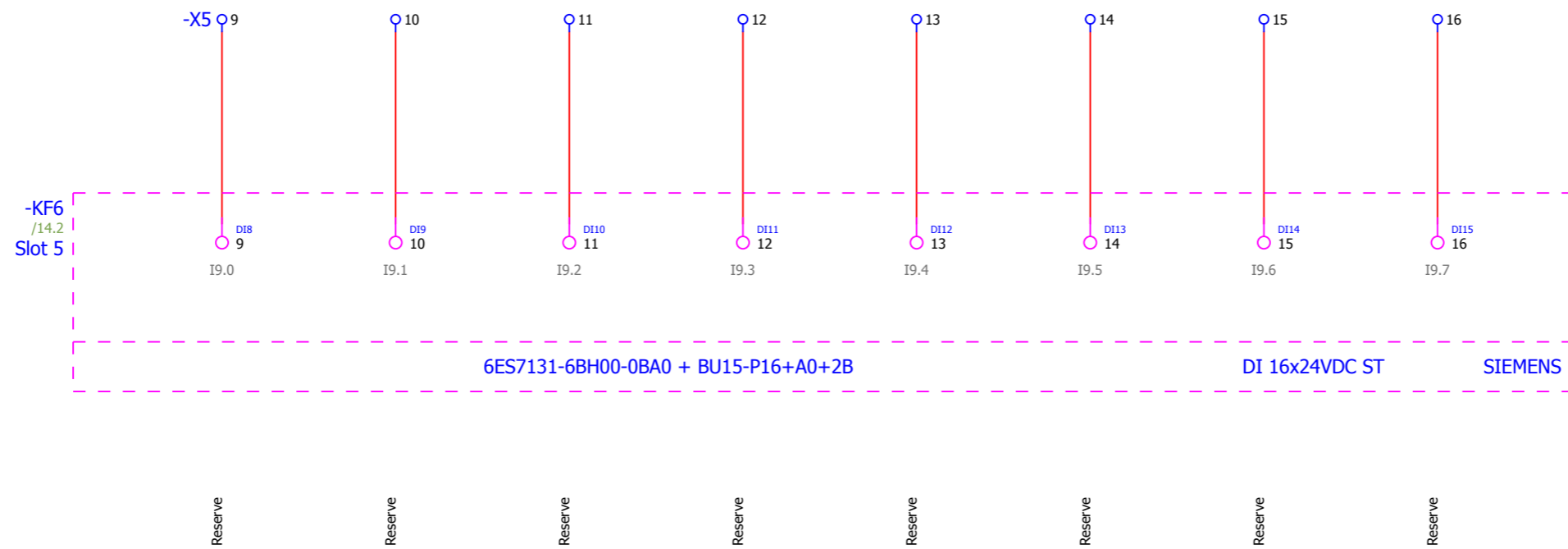
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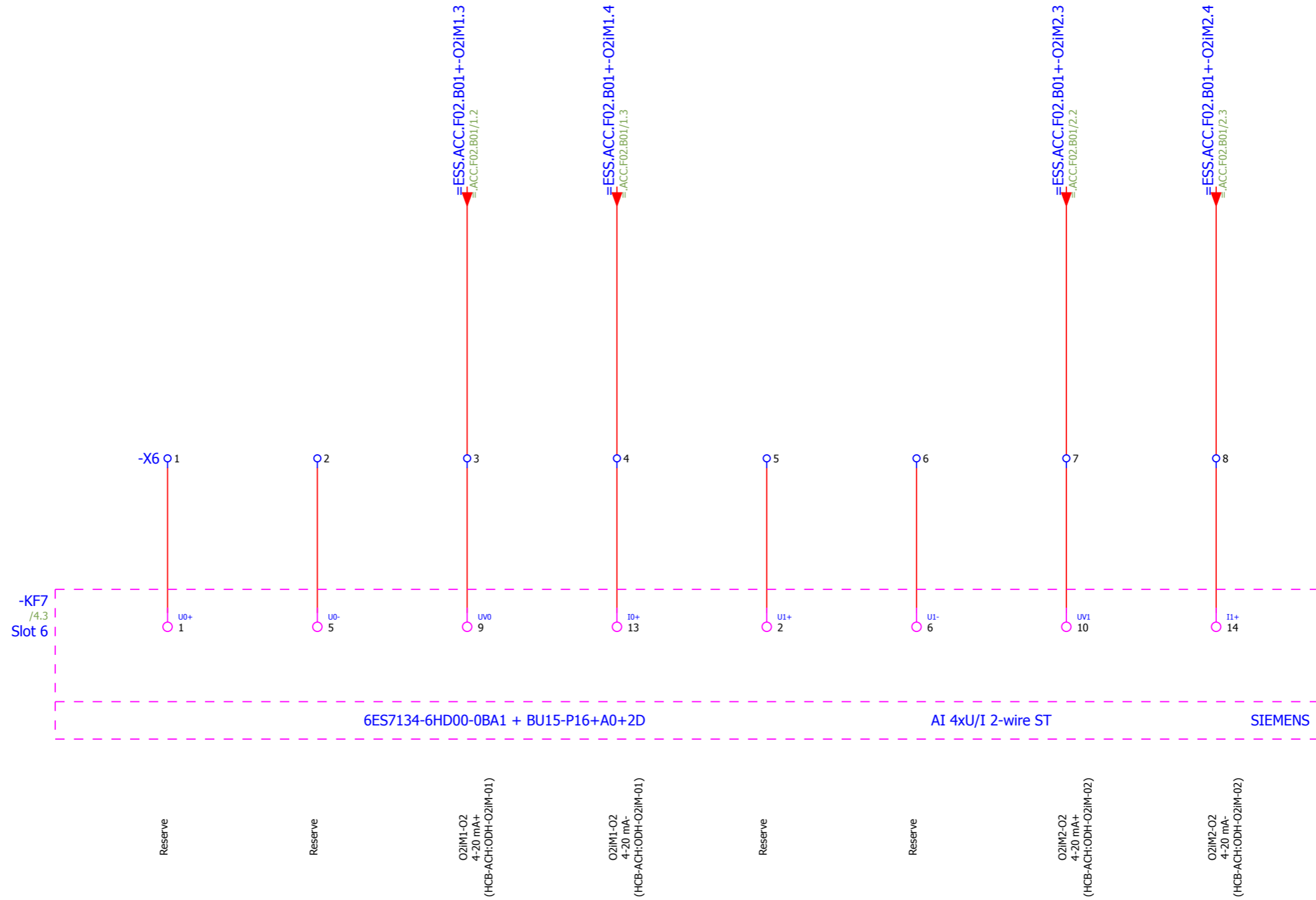
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FUNCTION	

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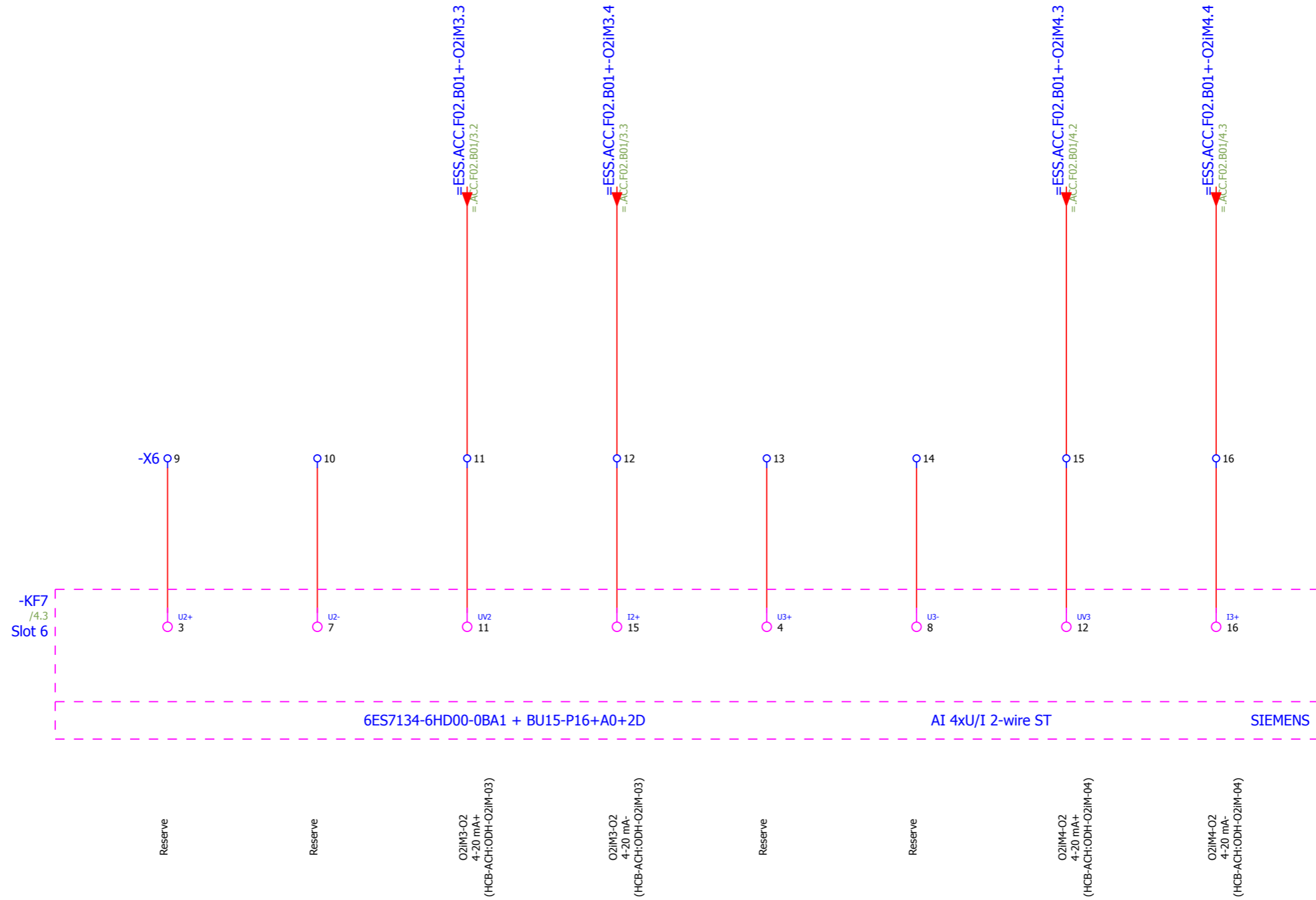
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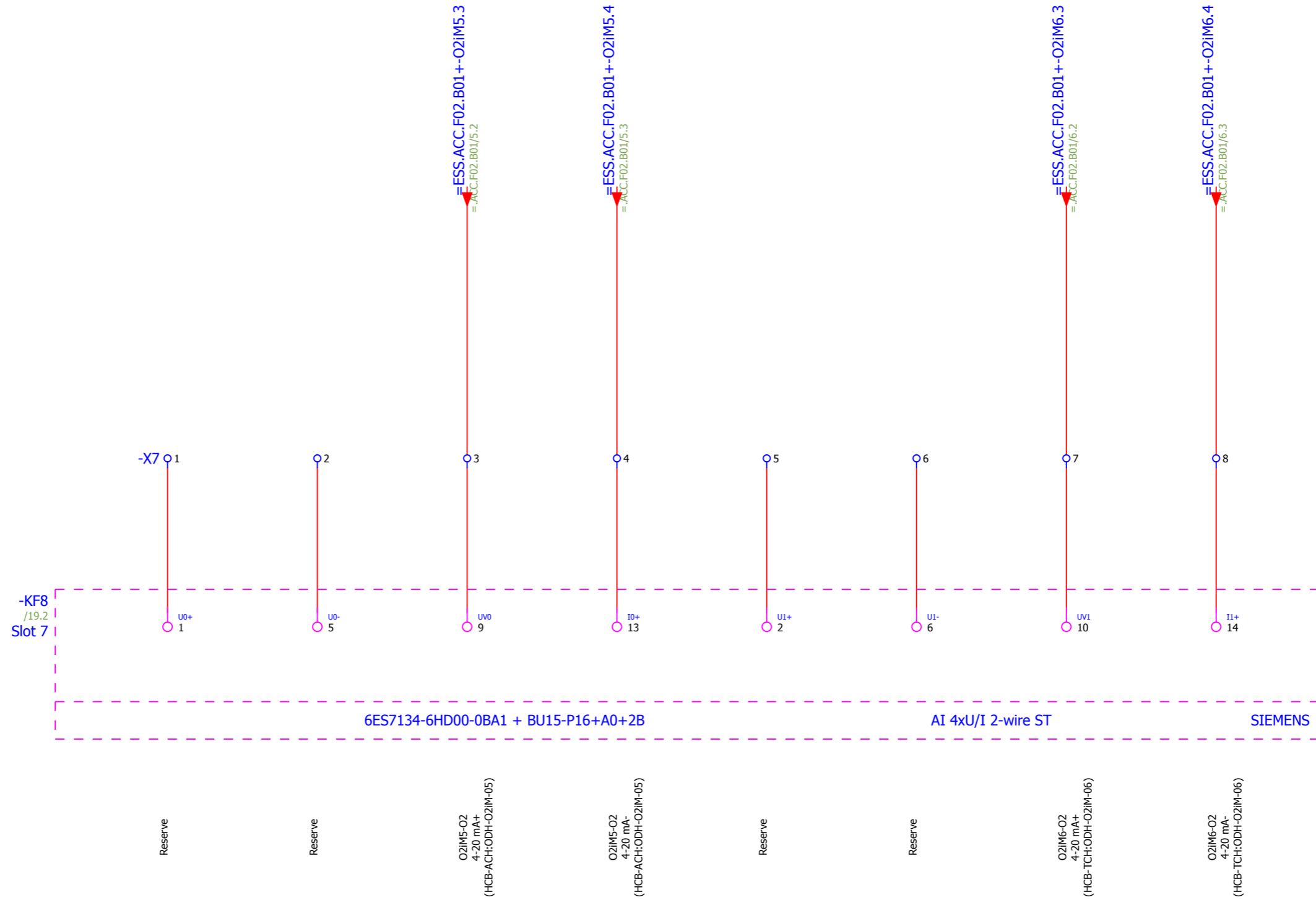
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PAGE TYPE Schematic multi-line
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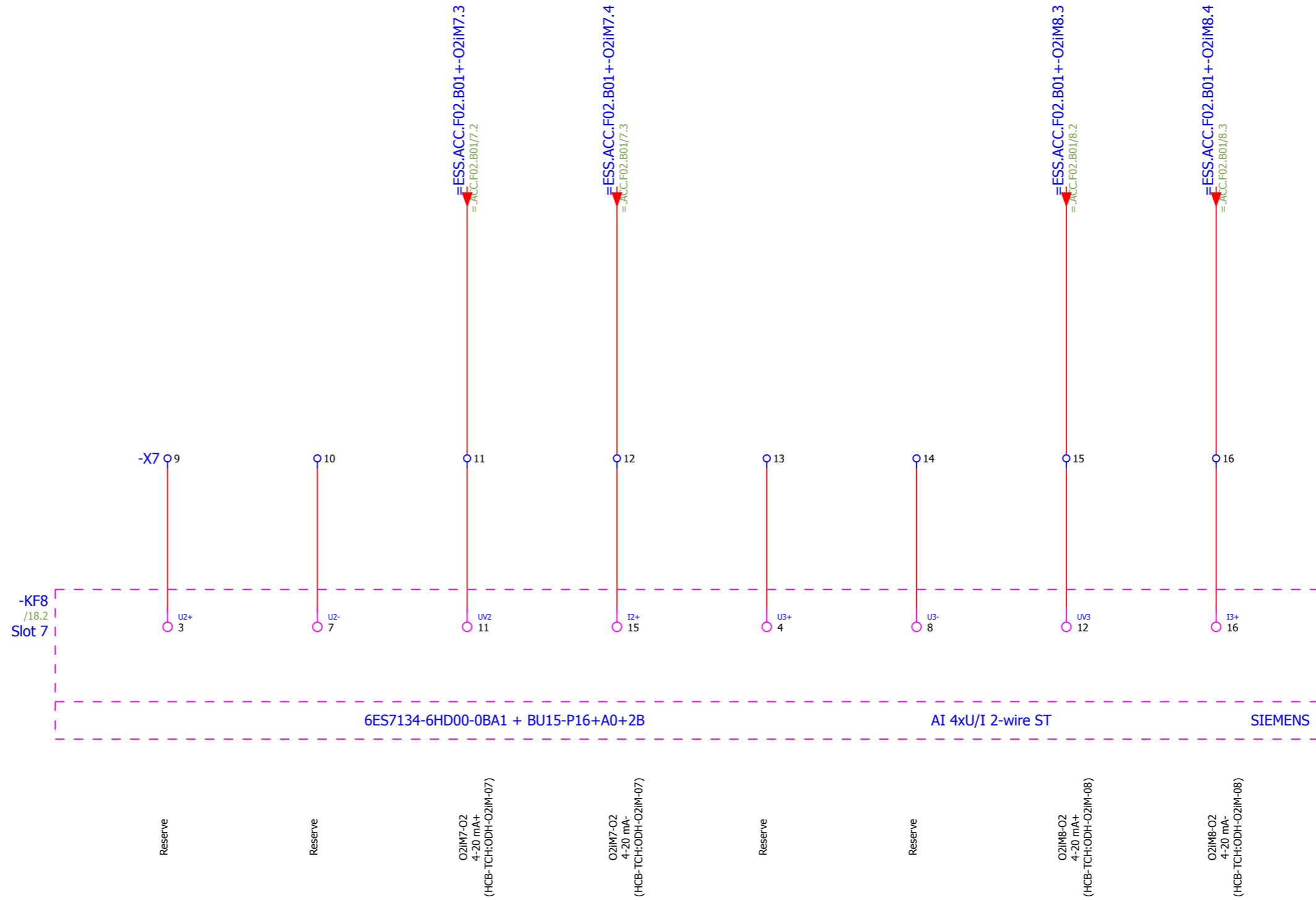
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PAGE TYPE	Schematic multi-line
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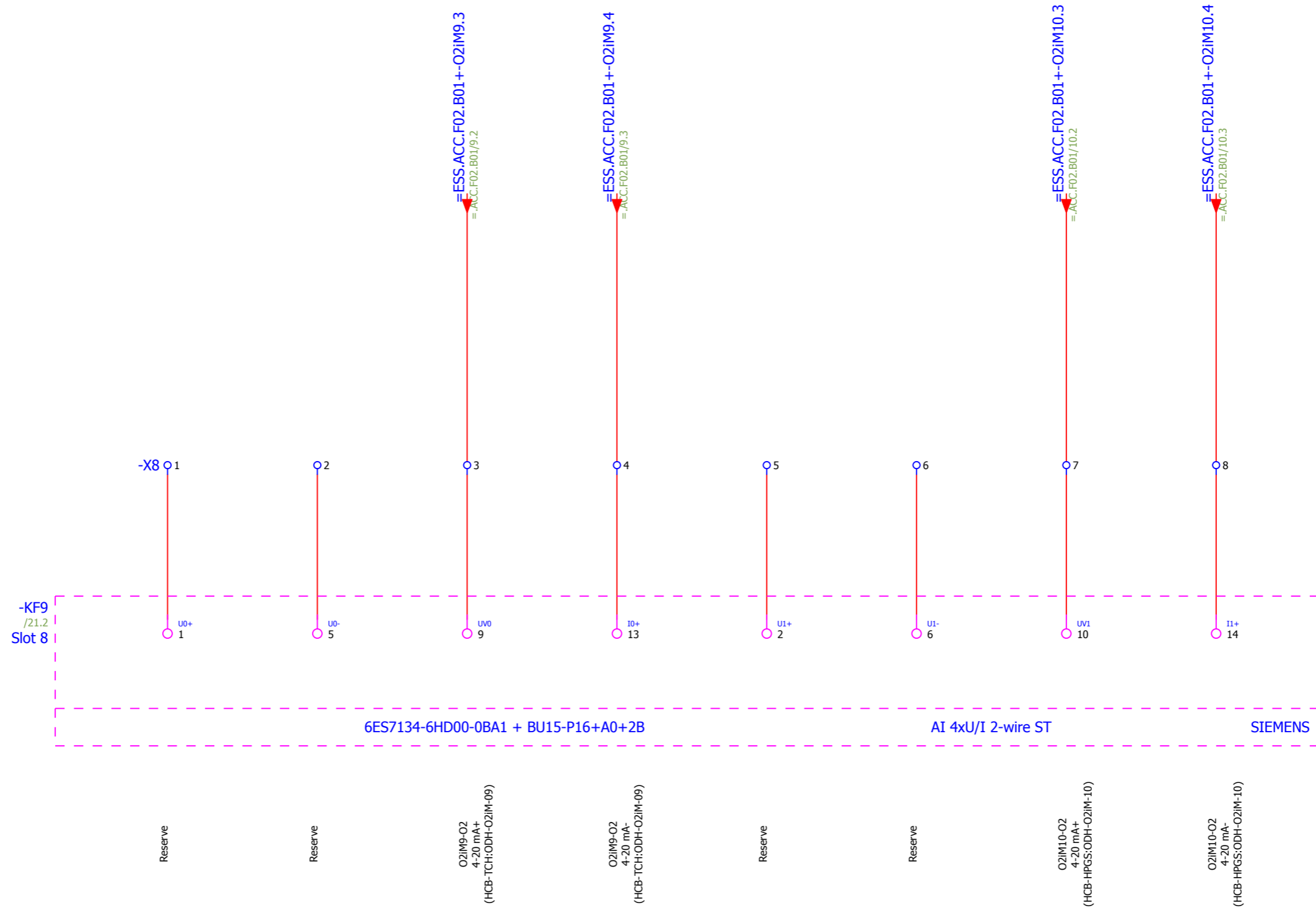
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DRAWING TITLE Accelerator ODH Detection System
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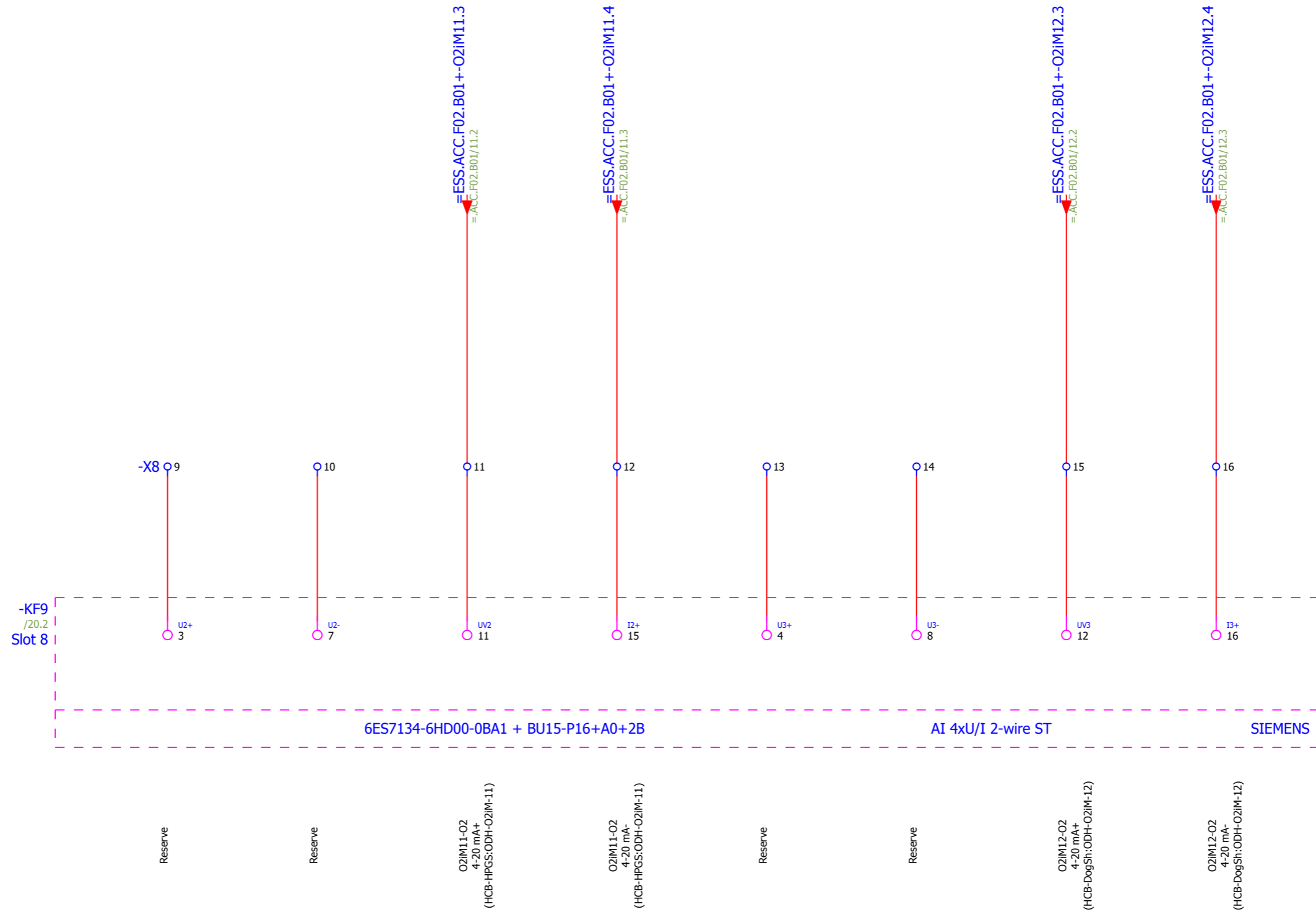
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DRAWING TITLE Accelerator ODH Detection System
PAGE TYPE Schematic multi-line
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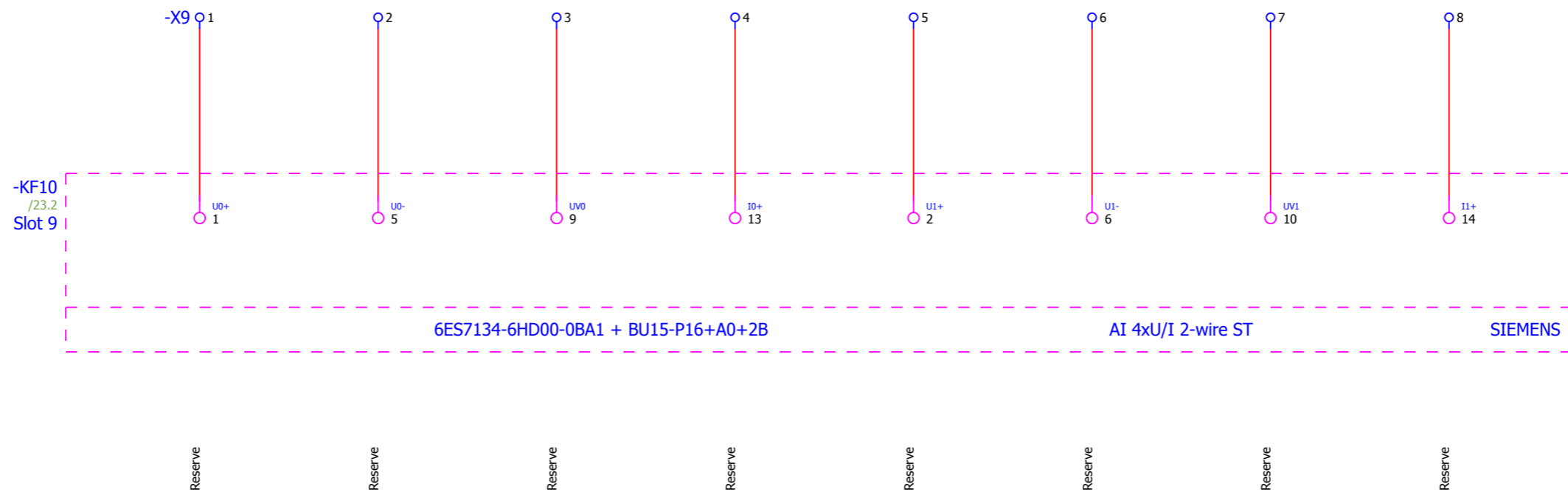
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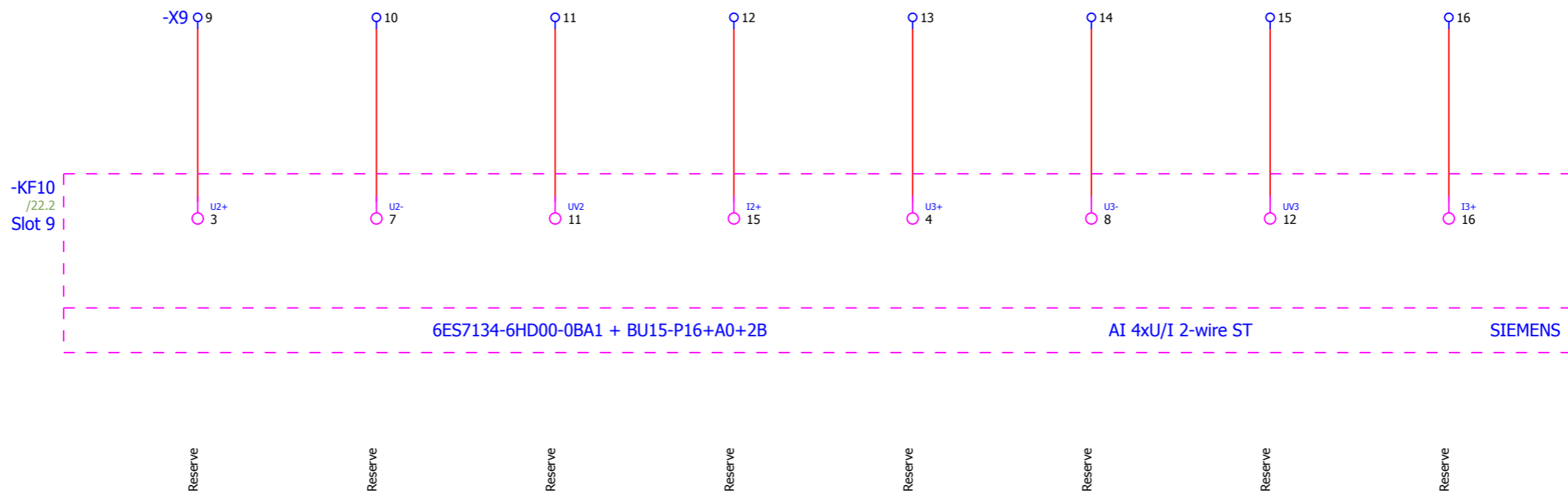
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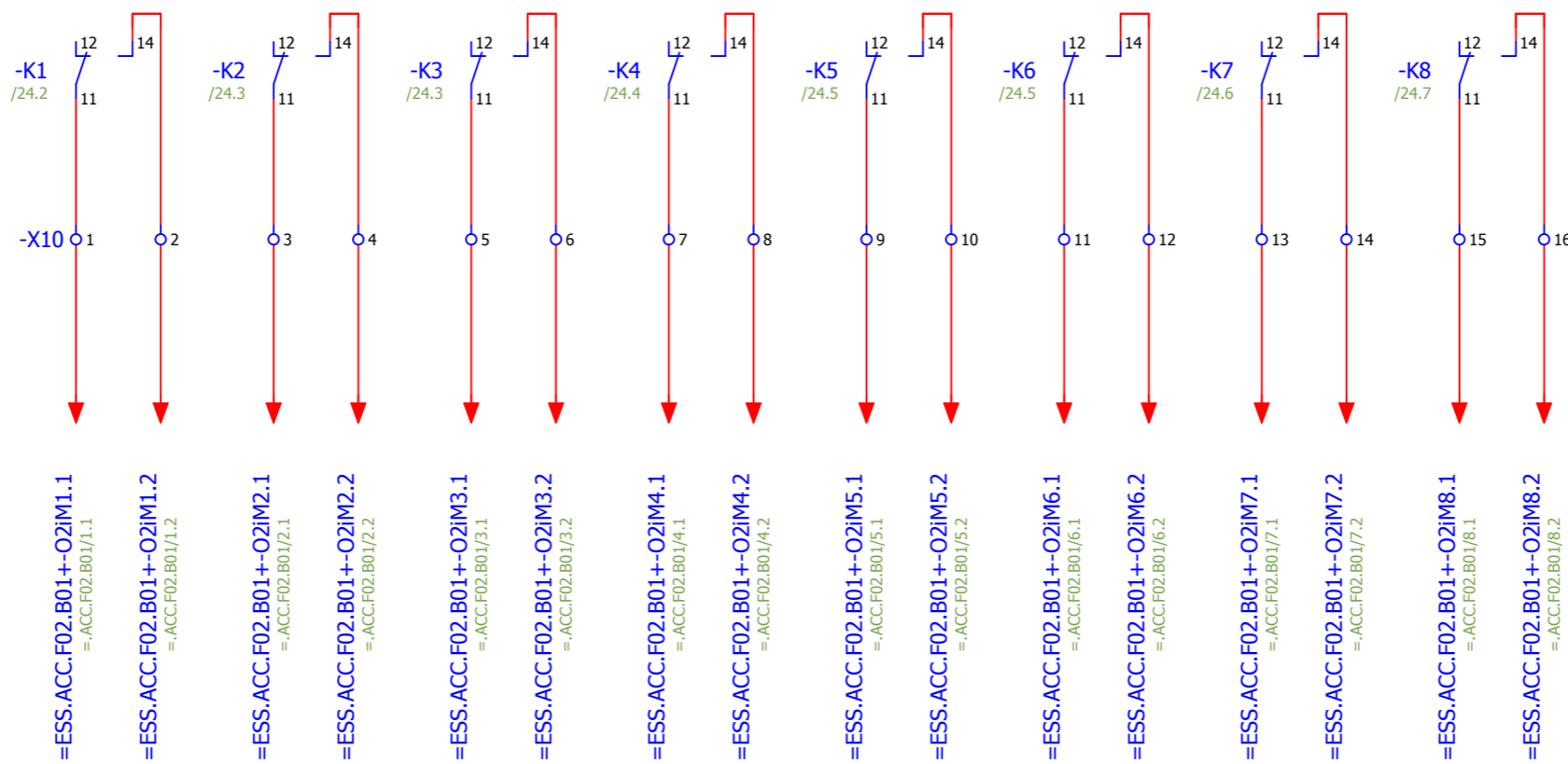
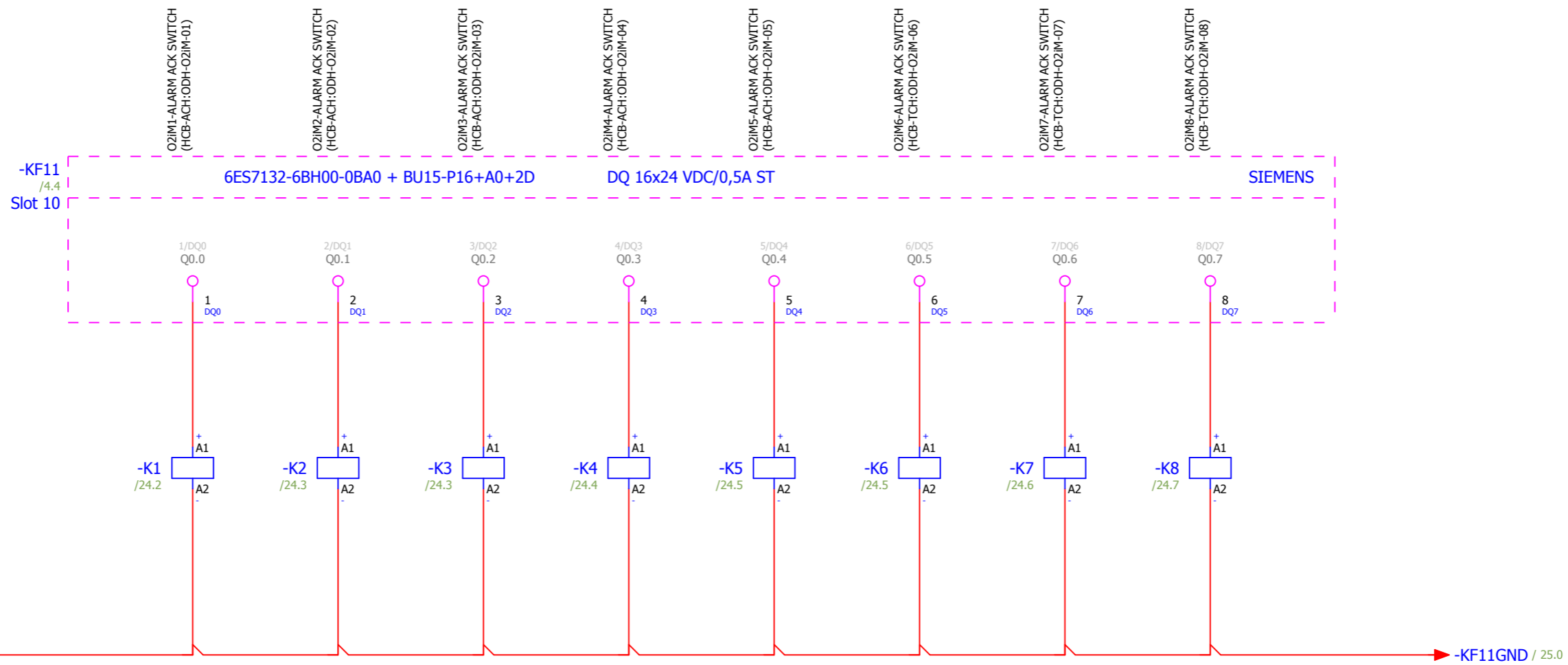
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DRAWING NUMBER (Doc)	ESS-0089356		
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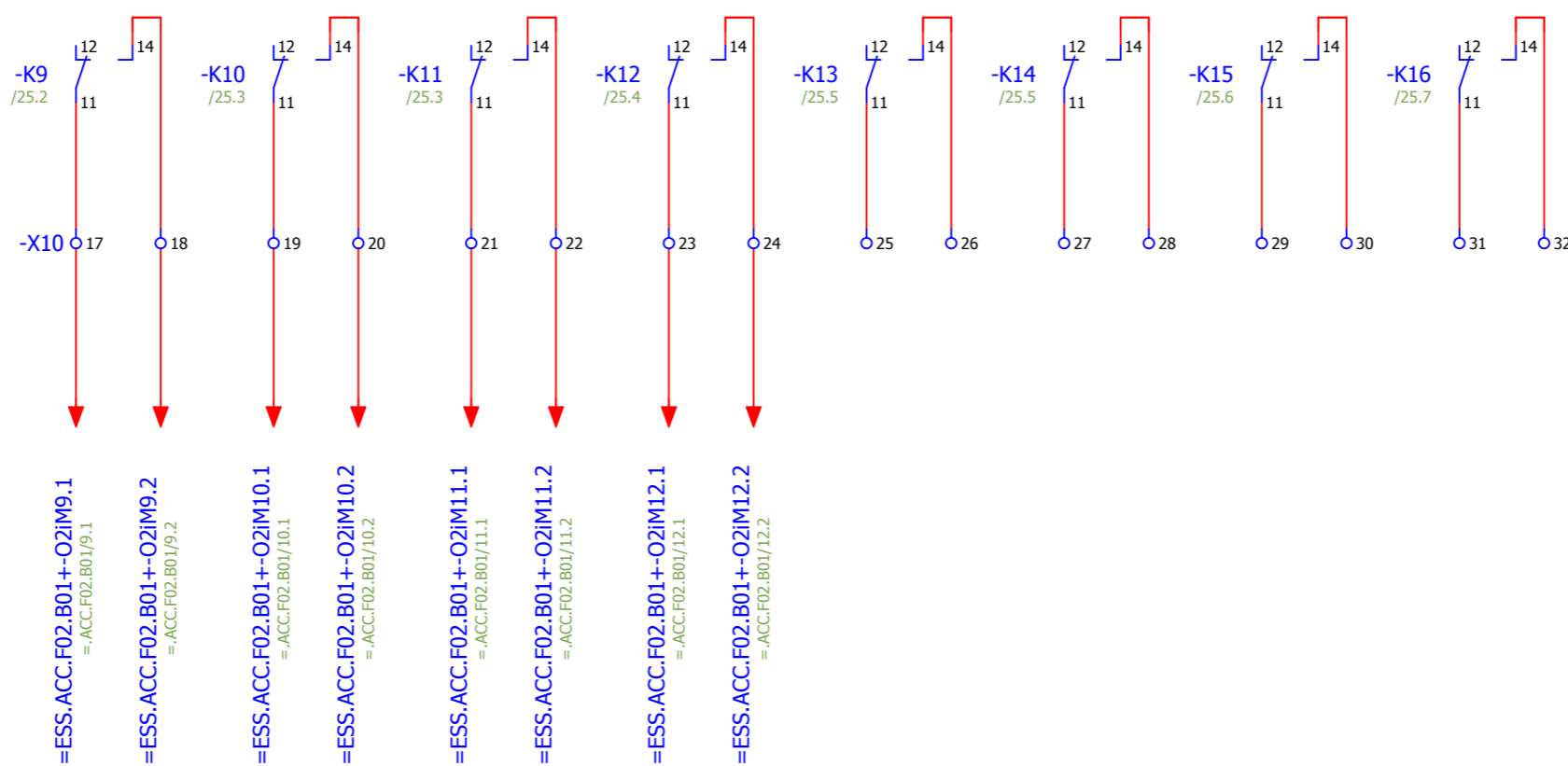
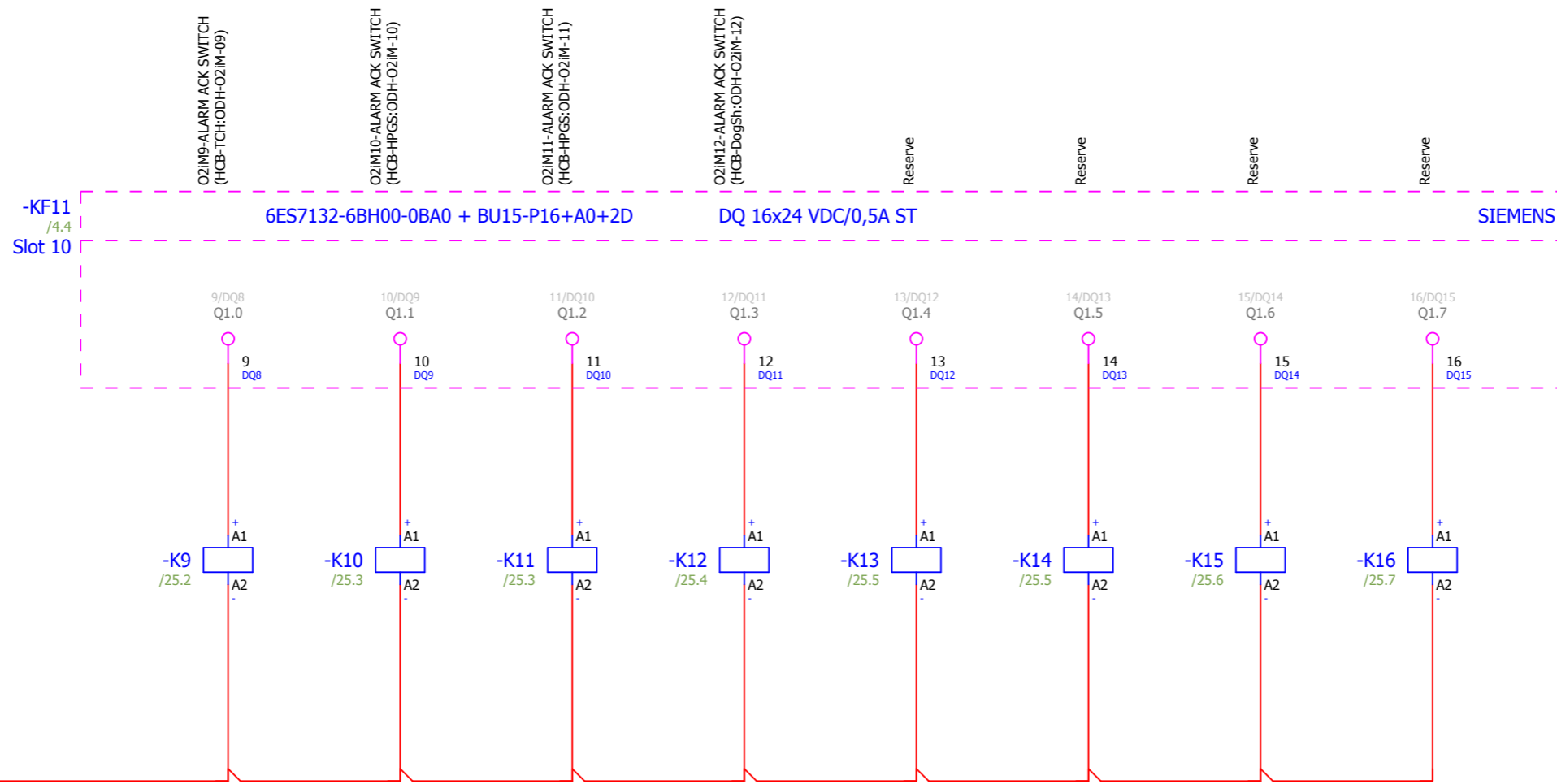


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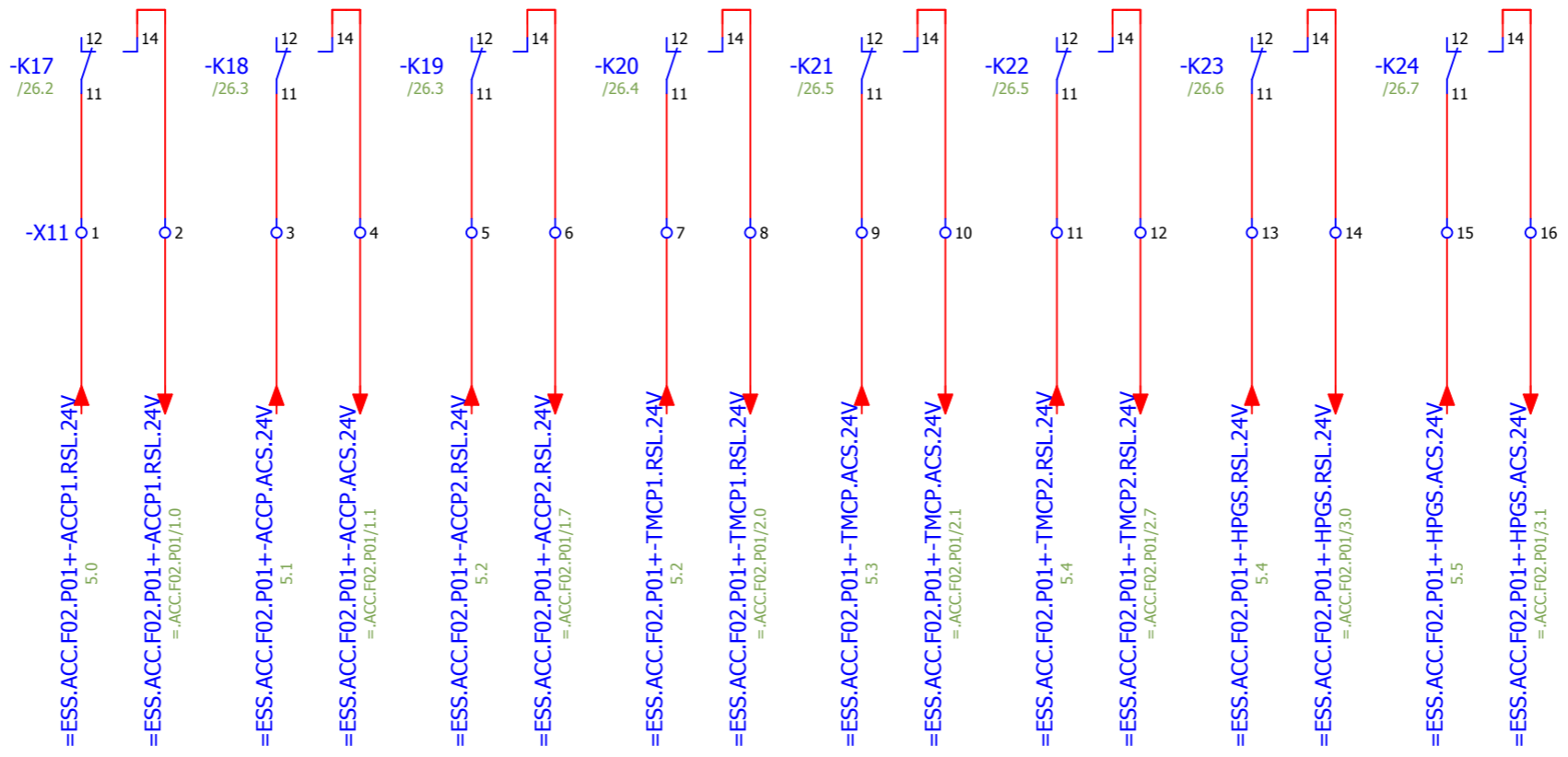
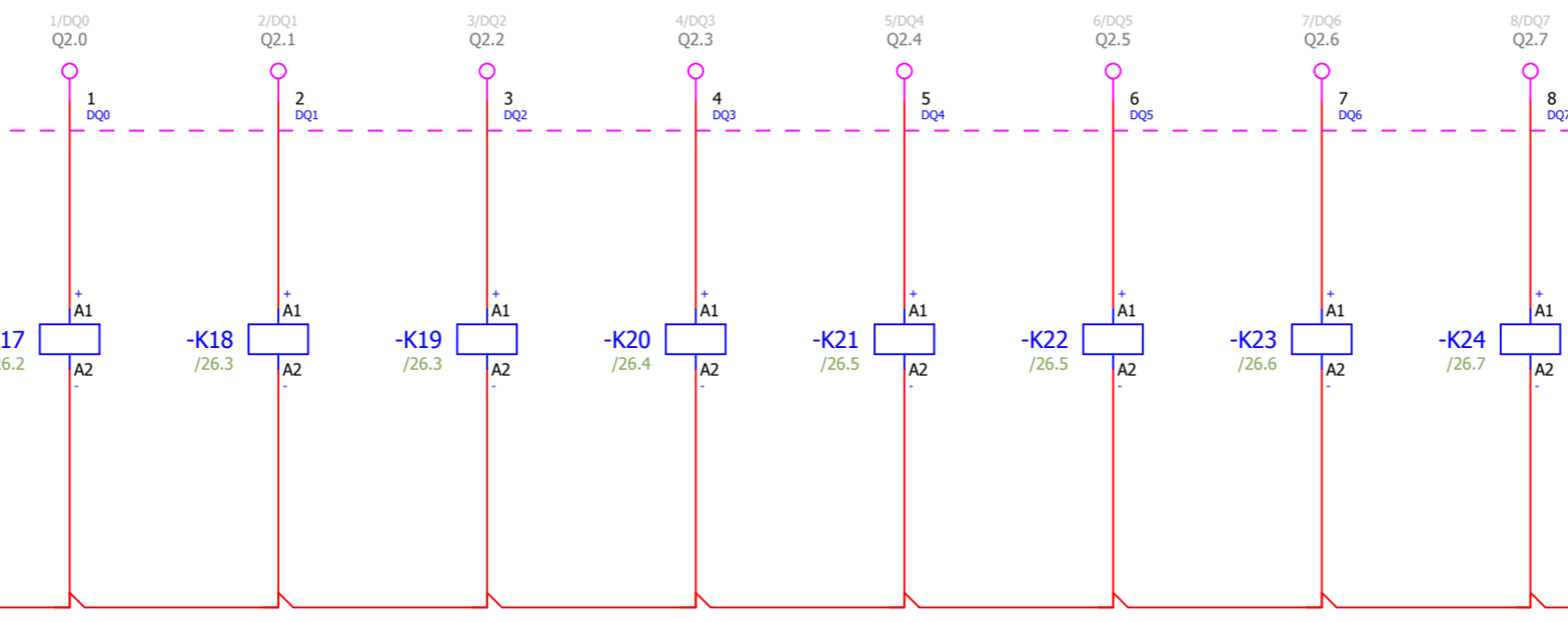


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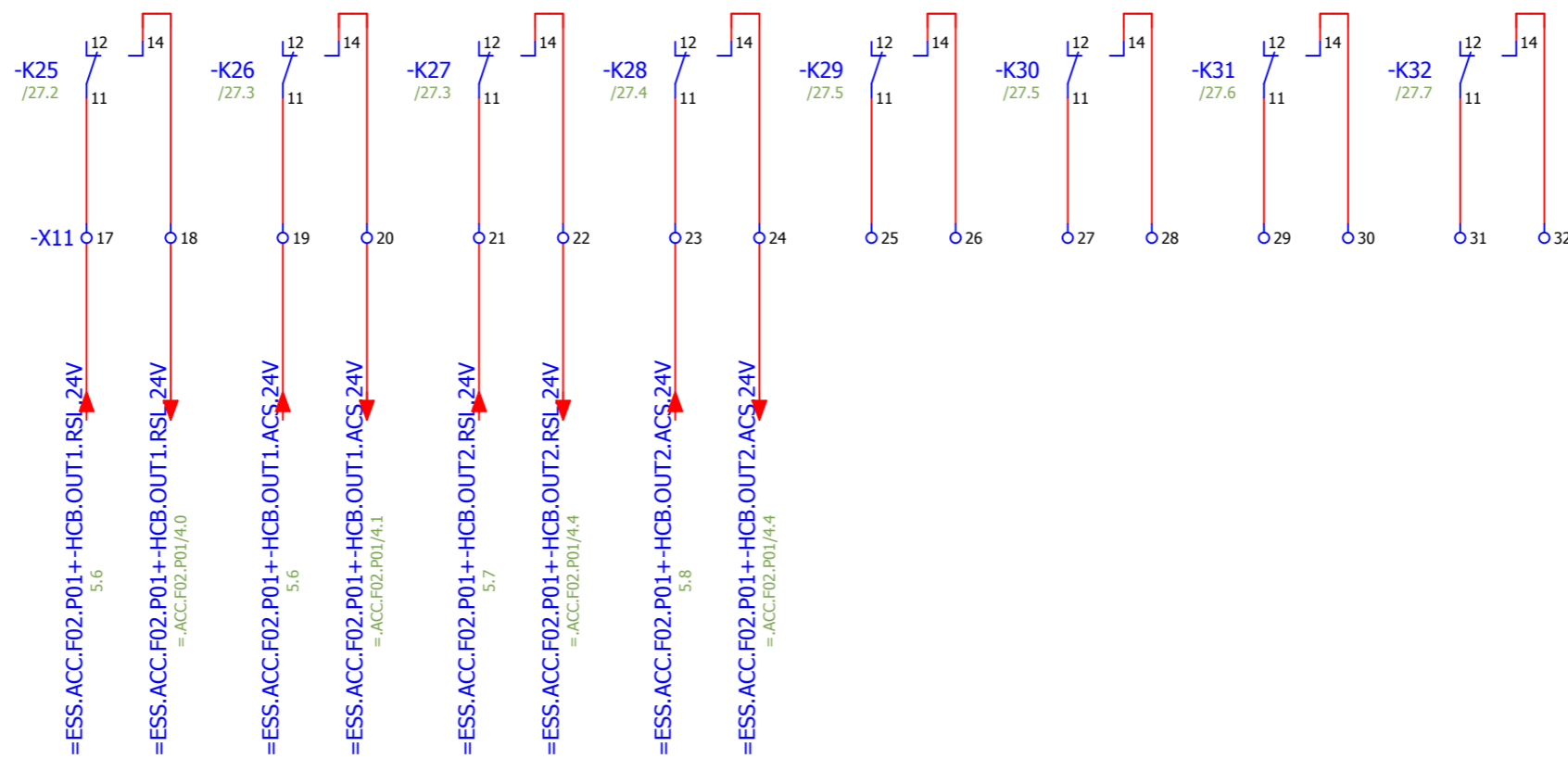
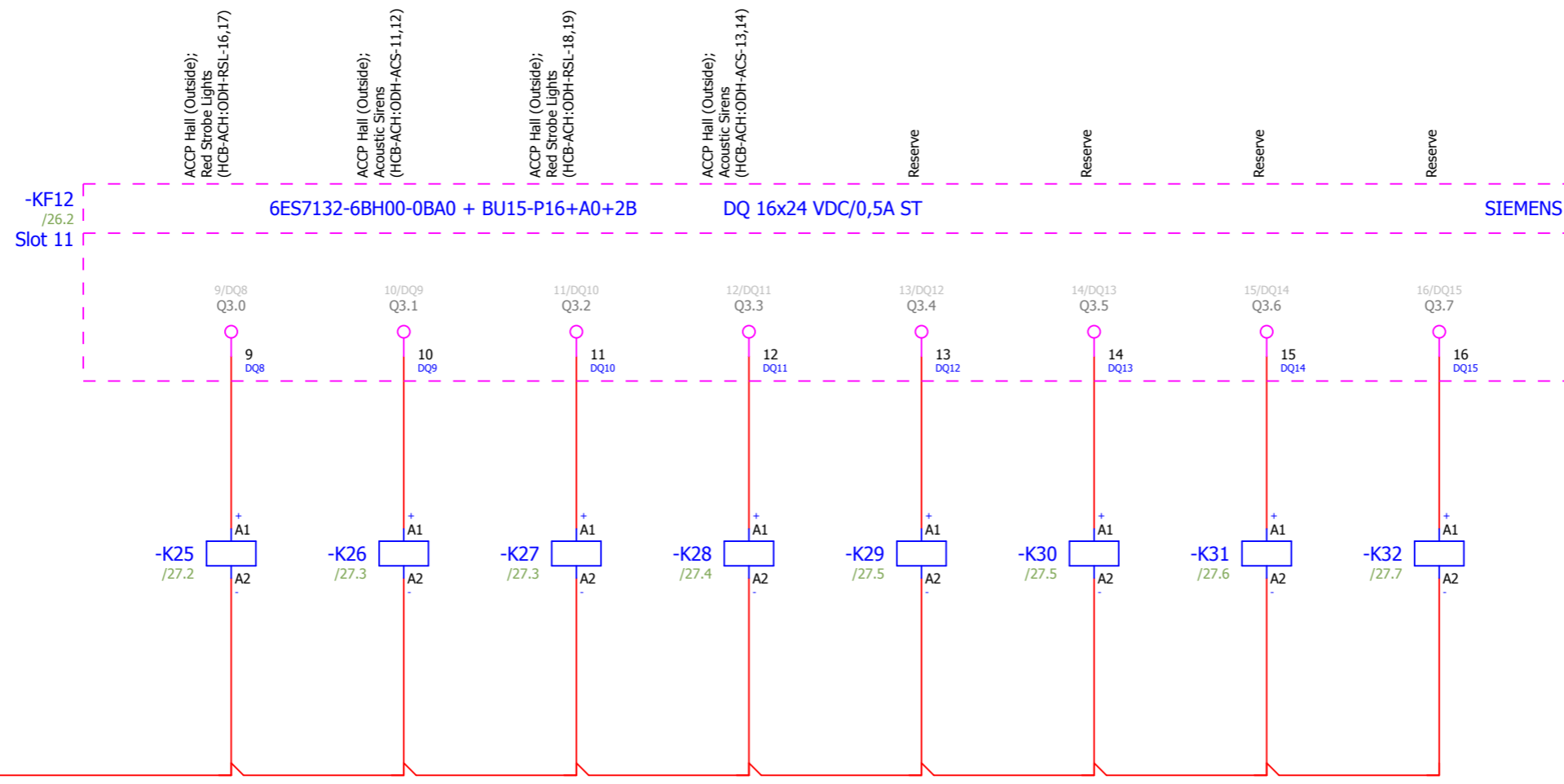
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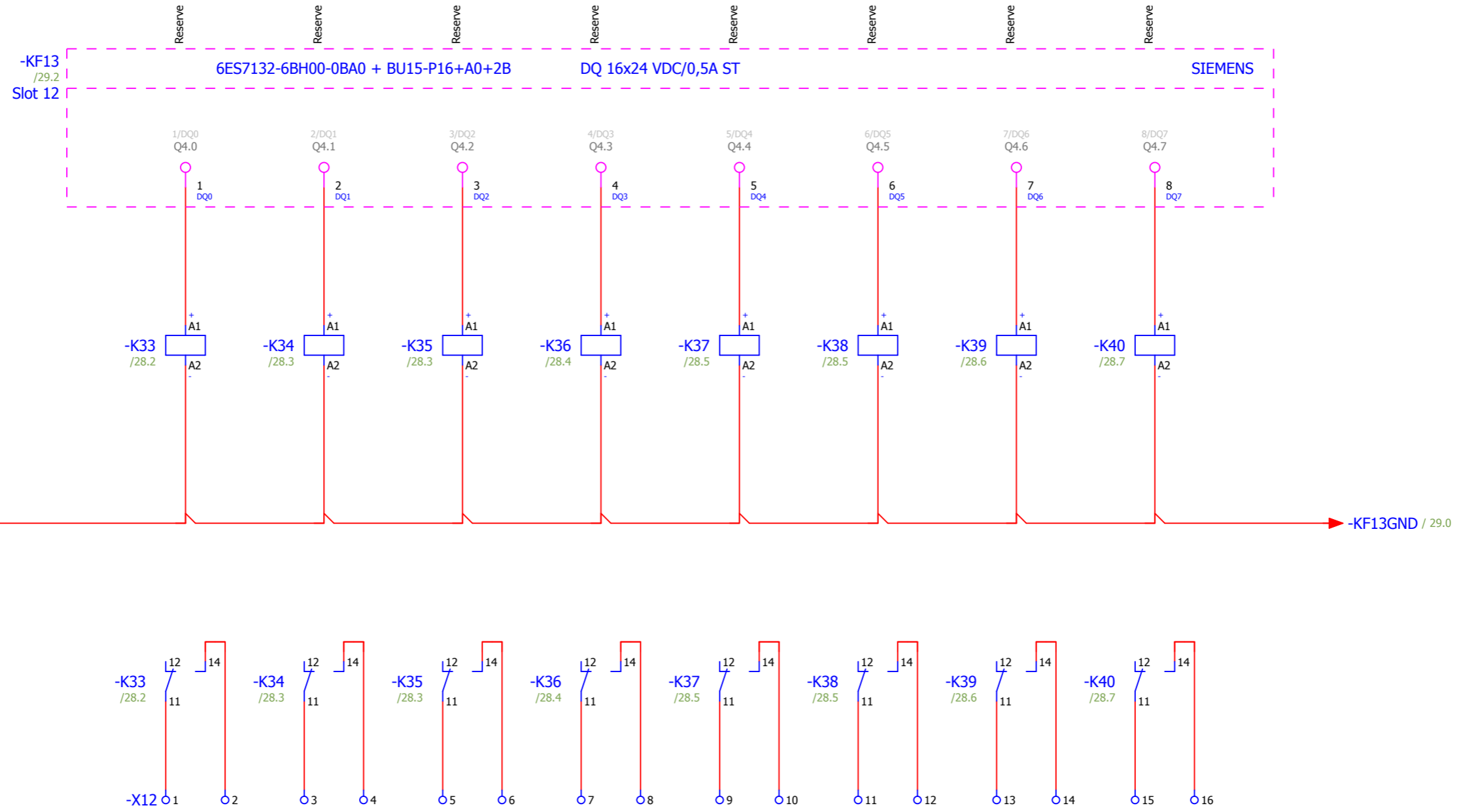
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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE		CHECKED BY MM	DATE 	PAGE TYPE Schematic multi-line	LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
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CHECKED BY MM	DATE	PAGE TYPE Schematic multi-line	LIFECYCLE LABEL Preliminary
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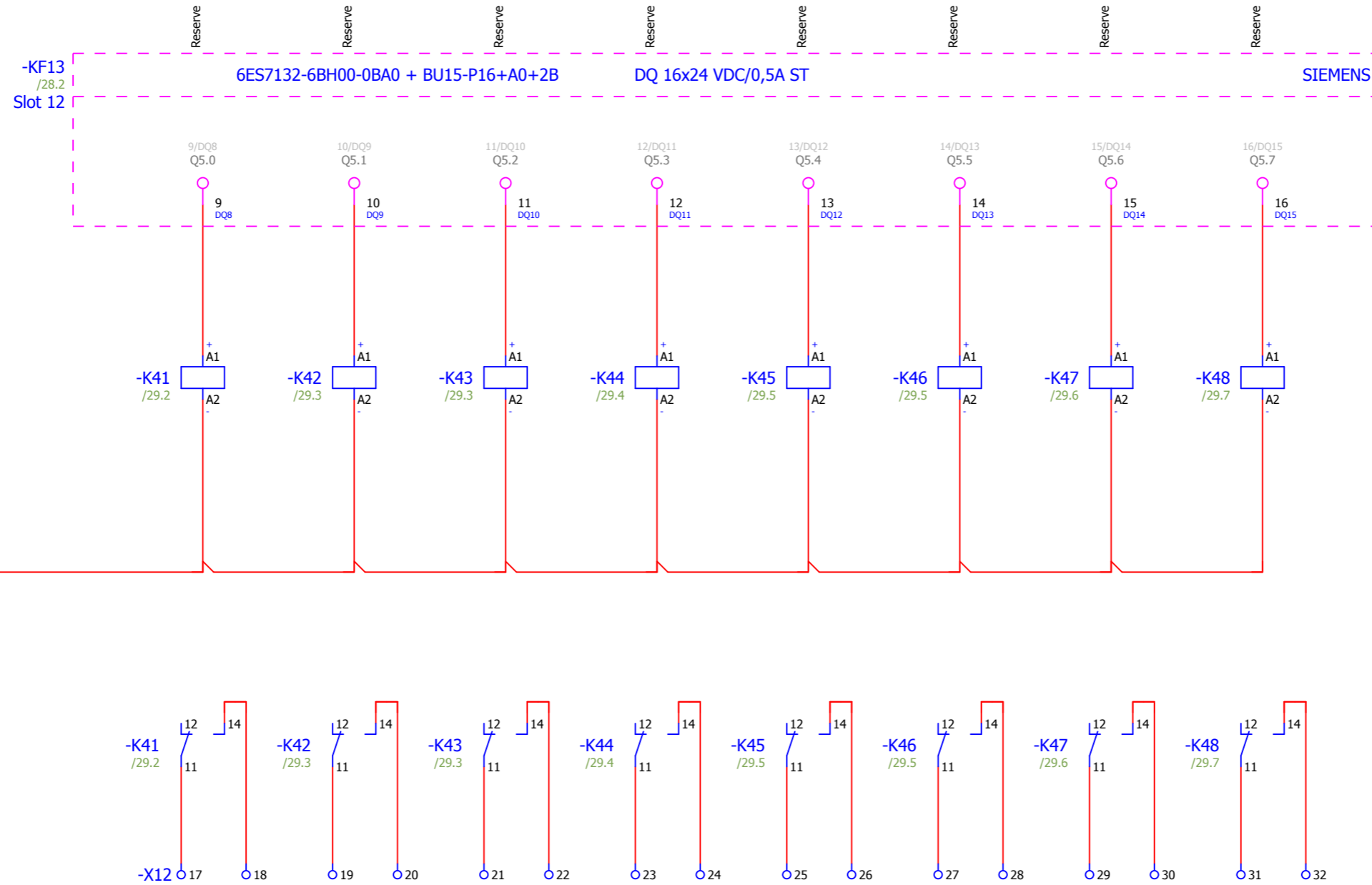
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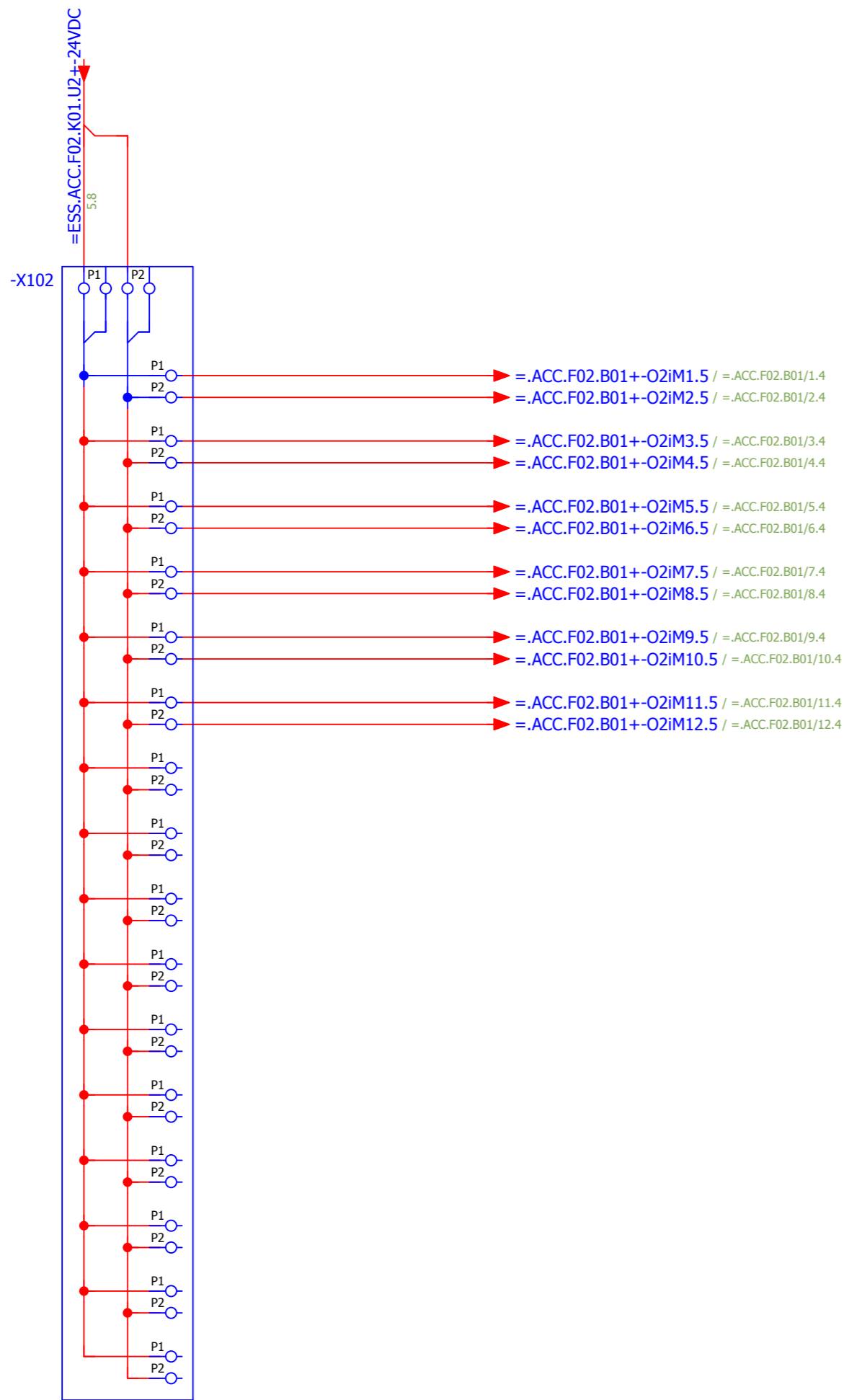
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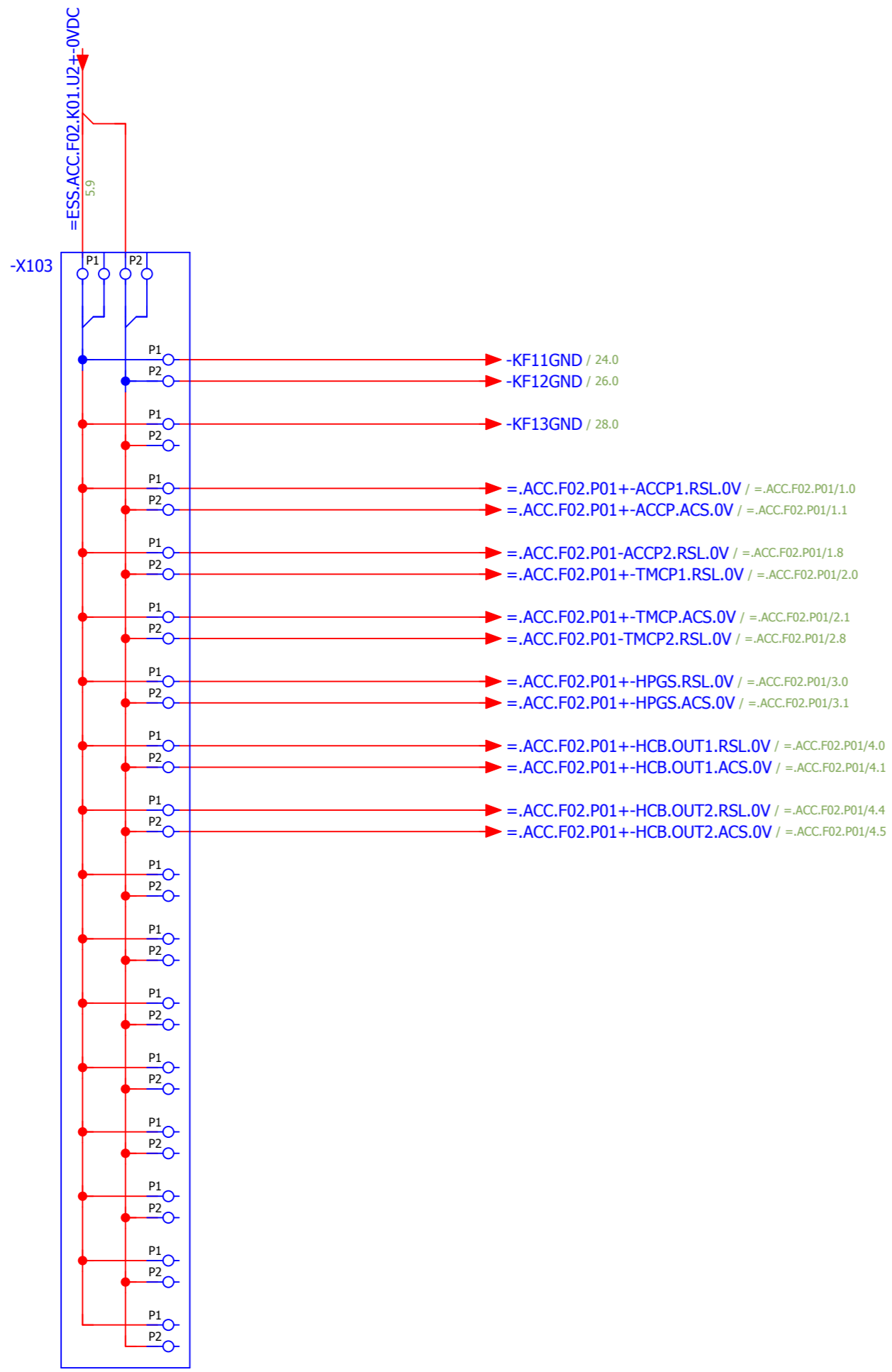
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2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Schematic multi-line
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.K01.U2&FS/30		
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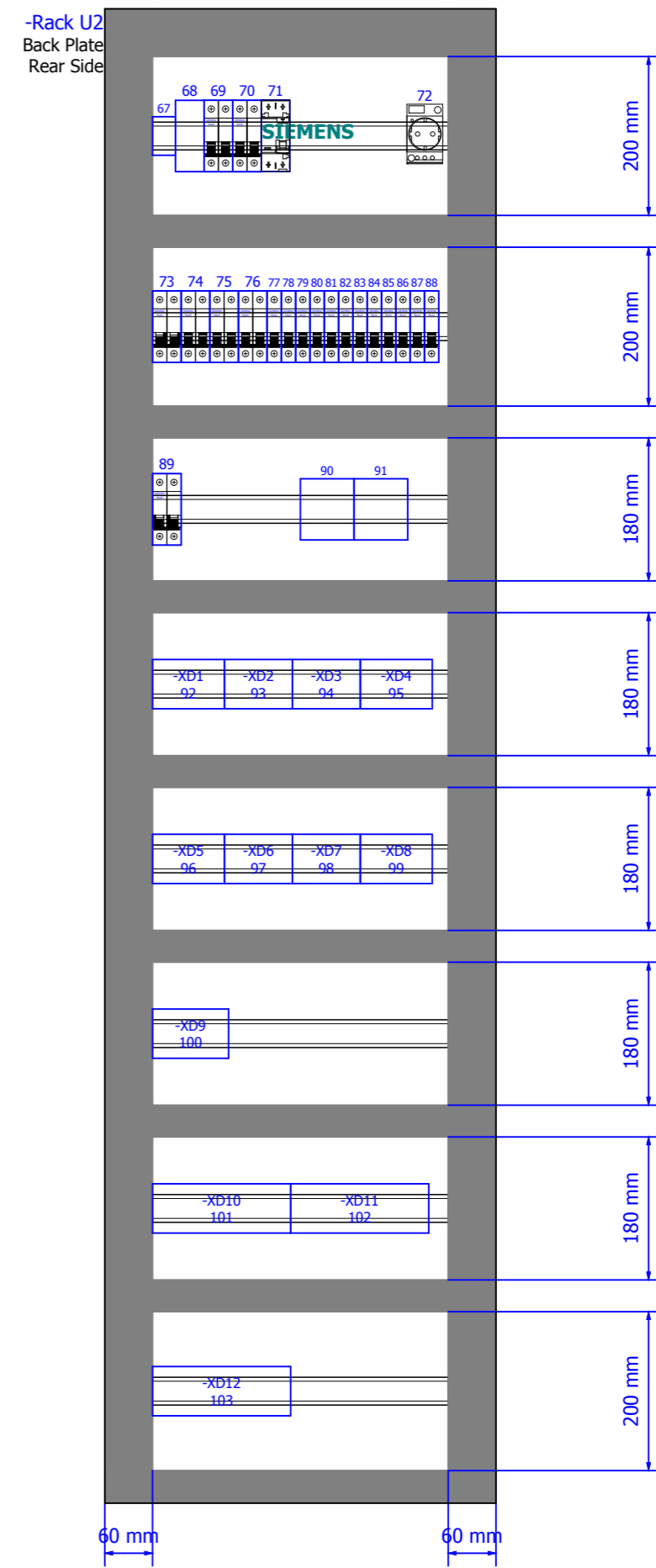
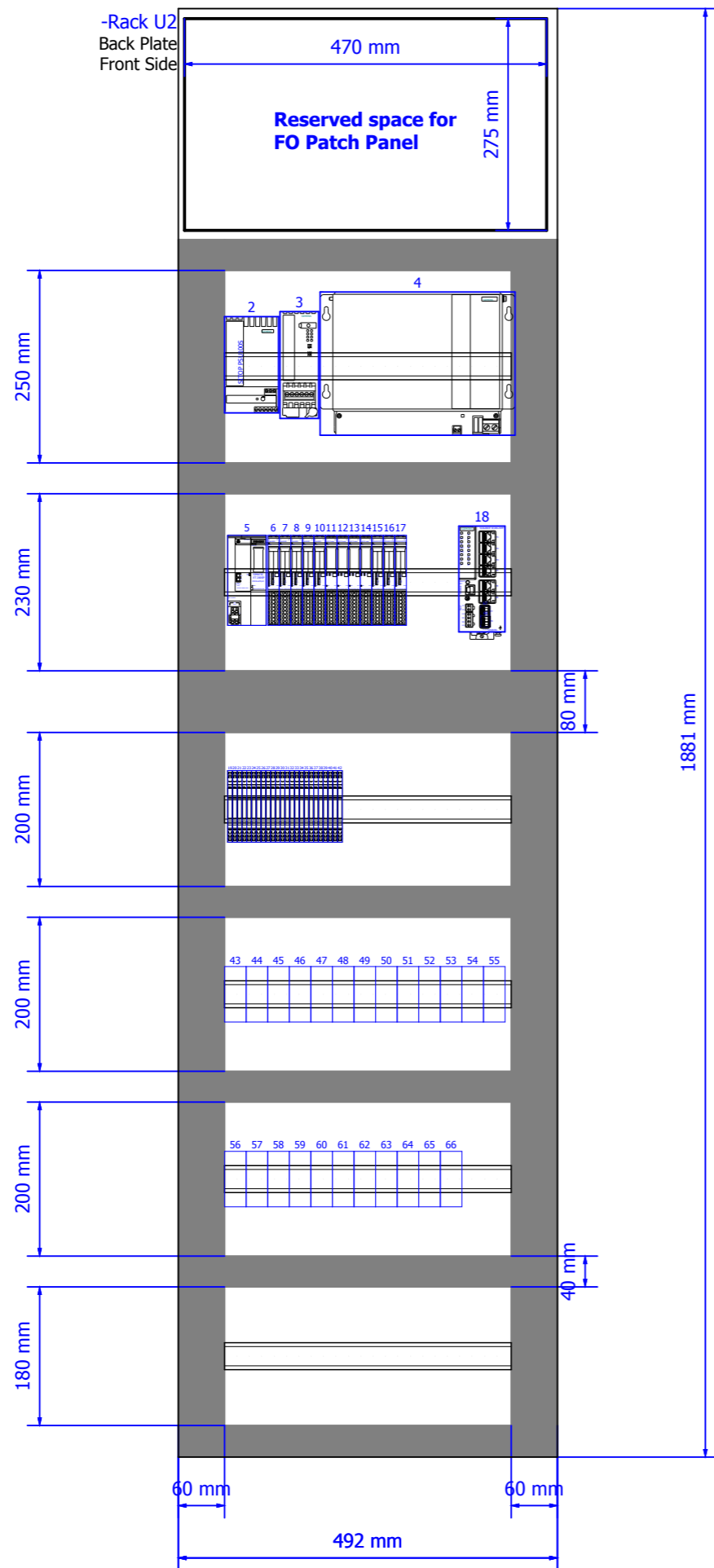
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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APPROVED BY	SLB	DATE	01-Sep-17
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DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Schematic multi-line
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DRAWING NUMBER (Doc)	ESS-0089356		
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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Panel layout		
FUNCTION			

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
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Enclosure legend

F18_001

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3	RB1	6EP4134-3AB00-2AY0	SIE.6EP4134-3AB00-2AY0	Siemens	
4	GB1	6EP4135-0GB00-0AY0	SIE.6EP4135-0GB00-0AY0	Siemens	
5	KF1	6ES7155-6AU00-0CNO / 6ES7193-6AR00-0AA0	SIE.6ES7155-6AU00-0CNO+BA_2xRJ45	Siemens	
6	KF2	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0DA0	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2D	Siemens	
7	KF3	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
8	KF4	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
9	KF5	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
10	KF6	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
11	KF7	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0DA0	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0+2D	Siemens	
12	KF8	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0BA0	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0+2B	Siemens	
13	KF9	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0BA0	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0+2B	Siemens	
14	KF10	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0BA0	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0+2B	Siemens	
15	KF11	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0DA0	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0+2D	Siemens	
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19	K1	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
20	K2	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
21	K3	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
22	K4	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
23	K5	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
24	K6	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
25	K7	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
26	K8	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
27	K9	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
28	K10	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
29	K11	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
30	K12	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
31	K13	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
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41	K39	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
42	K40	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
43	K17	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
44	K18	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
45	K19	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
46	K20	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
47	K21	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
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53	K27	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
54	K28	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
55	K29	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
56	K30	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
57	K31	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
58	K32	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
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				CHECKED BY			PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				MM			Enclosure legend	Preliminary	A3	1	2
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1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE		ESS	NEXT 2.1				



Documentation protection ISO 16016

Enclosure legend

F18_001

Item number	Device tag	Type number	Part number	Manufacturer	Function text
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60	K42	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
61	K43	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
62	K44	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
63	K45	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
64	K46	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
65	K47	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
66	K48	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
67	XF1	6GK5991-1AF00-8AA0	SIE.6GK5991-1AF00-8AA0	Siemens	
68	XF1	6GK5991-1AF00-8AA0	SIE.6GK5991-1AF00-8AA0	Siemens	
67	XD0				
68	QB1	5TL1232-0	5TL1232-0	Siemens	
69	FC1	5SL6516-7	SIE.5SL6516-7	Siemens	
70	FC2	5SL6510-7	SIE.5SL6510-7	Siemens	
71	FB1	5SV4311-0	SIE.5SV4311-0	Siemens	
72	XG1	SIE.5TE6800	SIE.5TE6800	Siemens	
73	FC3	5SL6504-7	SIE.5SL6504-7	Siemens	
74	FC4	5SL6504-7	SIE.5SL6504-7	Siemens	
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76	FC6	5SL6504-7	SIE.5SL6504-7	Siemens	
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79	FC9	5SL6101-7	SIE.5SL6101-7	Siemens	
80	FC10	5SL6101-7	SIE.5SL6101-7	Siemens	
81	FC11	5SL6101-7	SIE.5SL6101-7	Siemens	
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83	FC13	5SL6101-7	SIE.5SL6101-7	Siemens	
84	FC14	5SL6101-7	SIE.5SL6101-7	Siemens	
85	FC15	5SL6101-7	SIE.5SL6101-7	Siemens	
86	FC16	5SL6101-7	SIE.5SL6101-7	Siemens	
87	FC17	5SL6101-7	SIE.5SL6101-7	Siemens	
88	FC18	5SL6101-7	SIE.5SL6101-7	Siemens	
89	FC19	5SL6504-7	SIE.5SL6504-7	Siemens	
92	XD1				
93	XD2				
94	XD3				
95	XD4				
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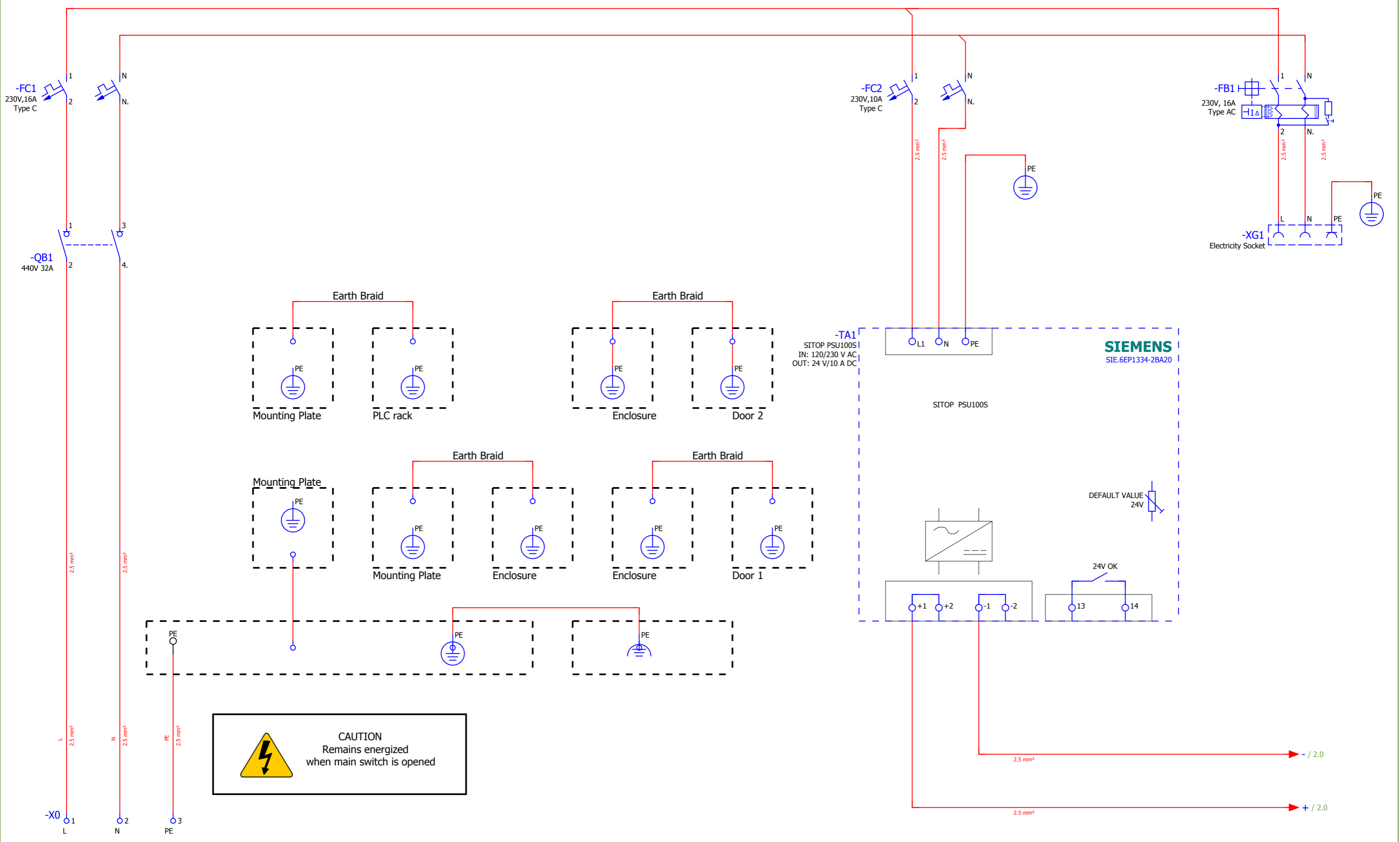
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS	DATE	

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Enclosure legend		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV			
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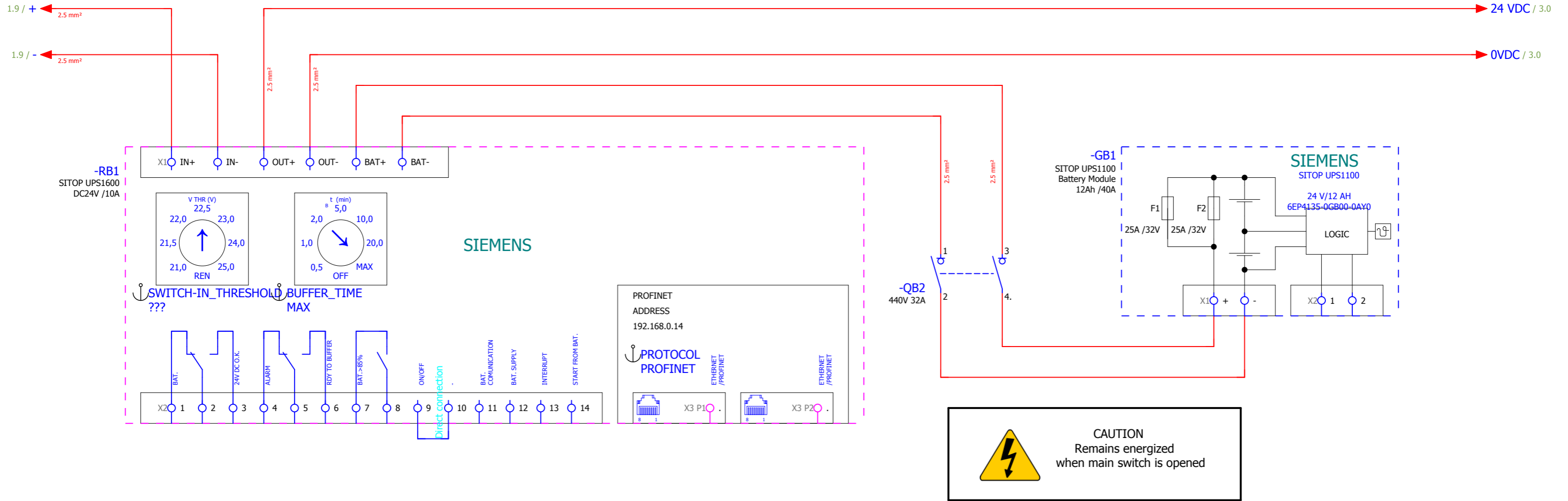
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DRAWN BY: MM & ATD
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DATE: 2017-09-01
DATE: 01-Sep-17
DESIGN SITE: ESS

DRAWING TITLE: Accelerator ODH Detection System
PAGE TYPE: Schematic multi-line
FUNCTION:

DRAWING NUMBER (Doc): ESS-0089356
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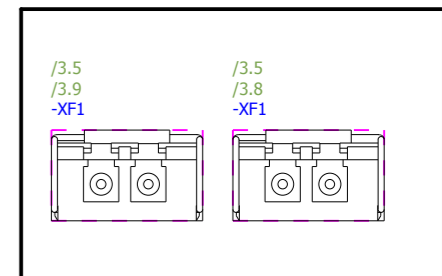
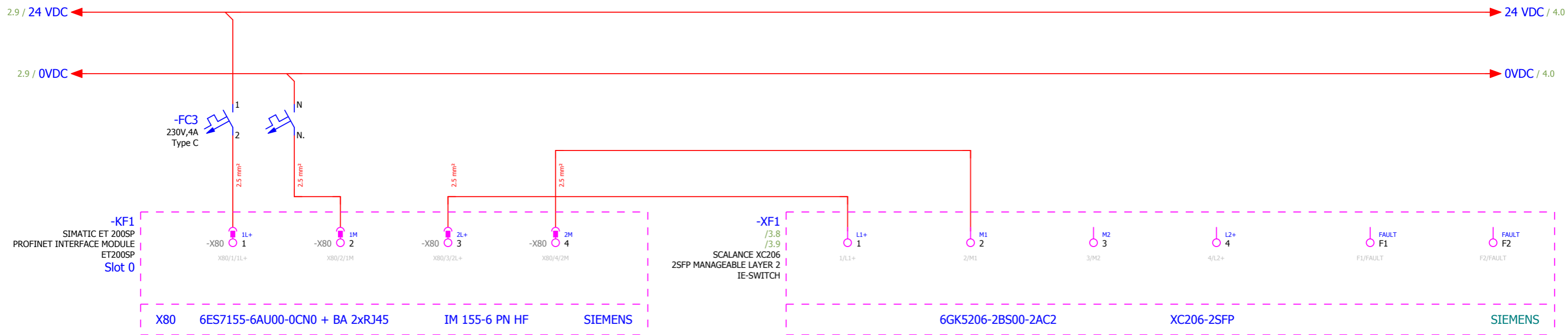
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DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Schematic multi-line
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
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**SFP pluggable transceiver for media modules
100MBIT/S LC-PORT OPTICAL**

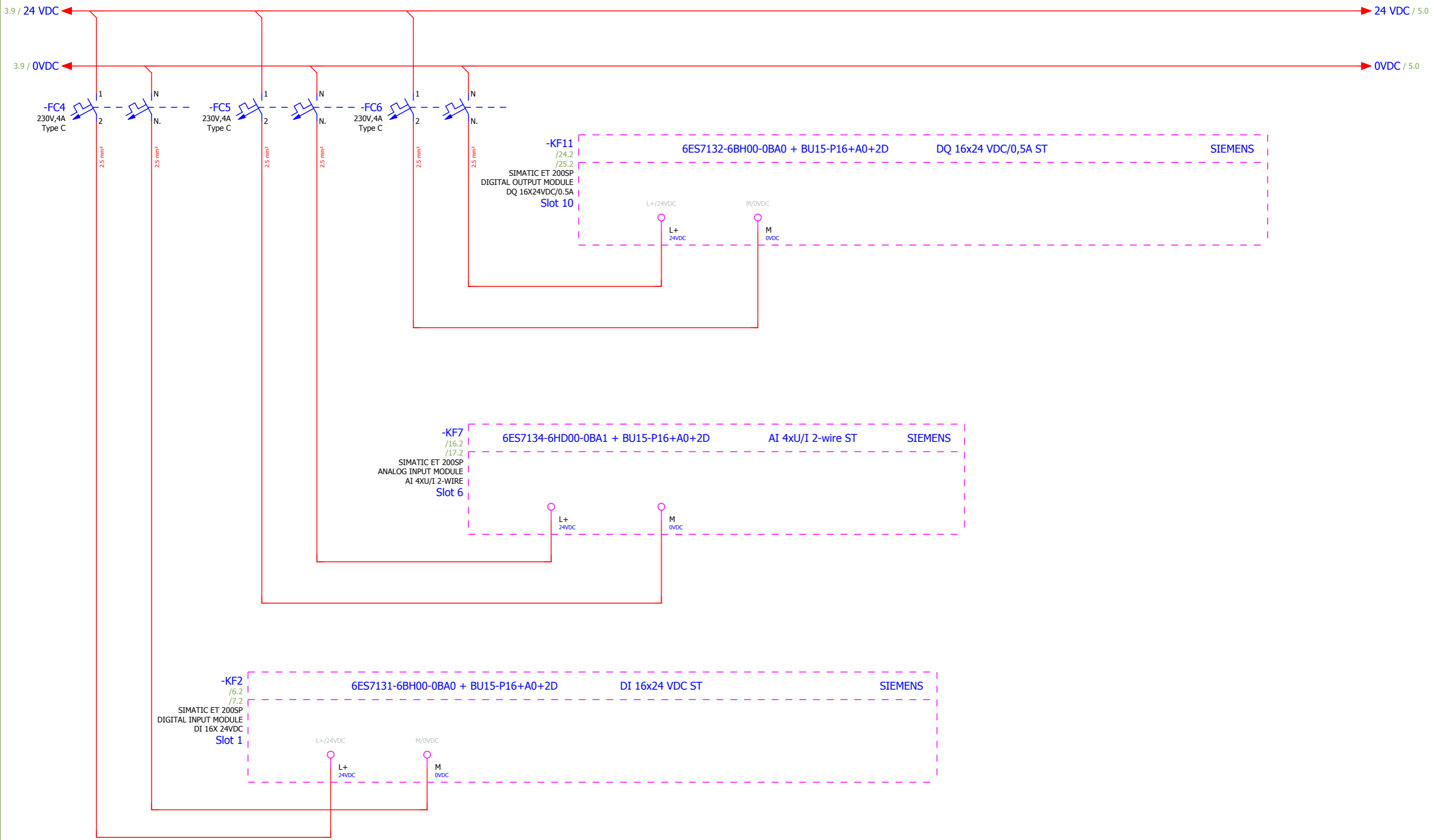
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DESIGN SITE	ESS		

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PAGE TYPE	Schematic multi-line
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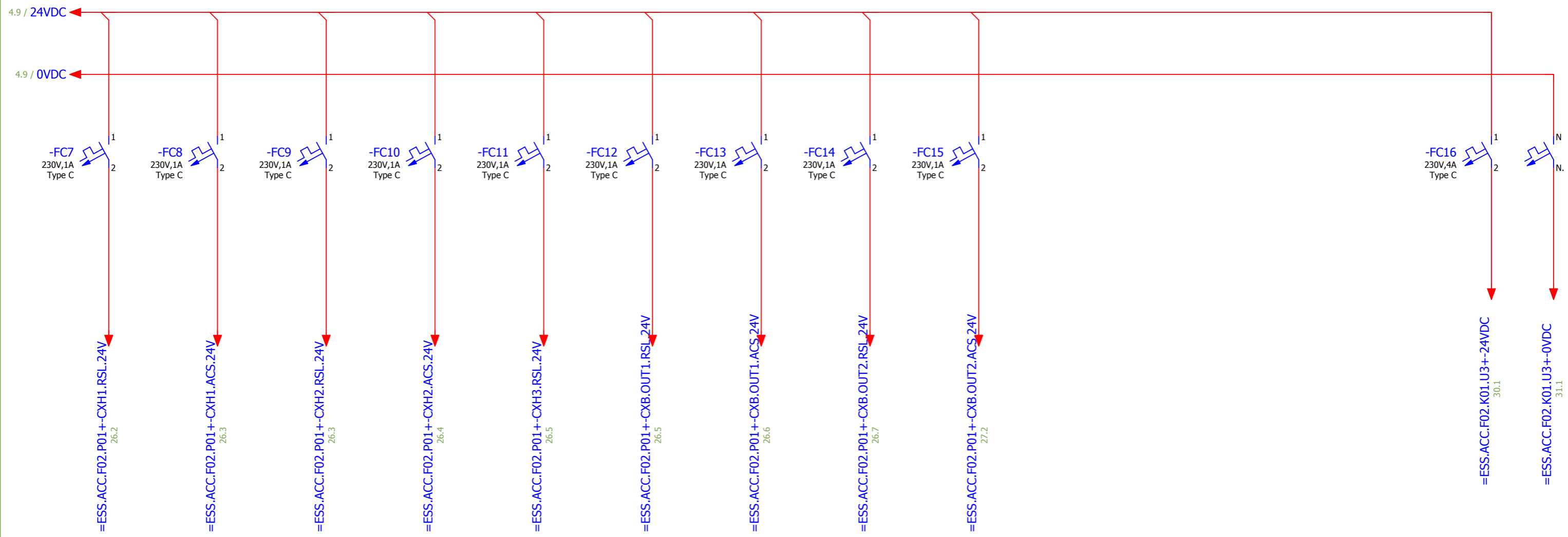
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DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Schematic multi-line
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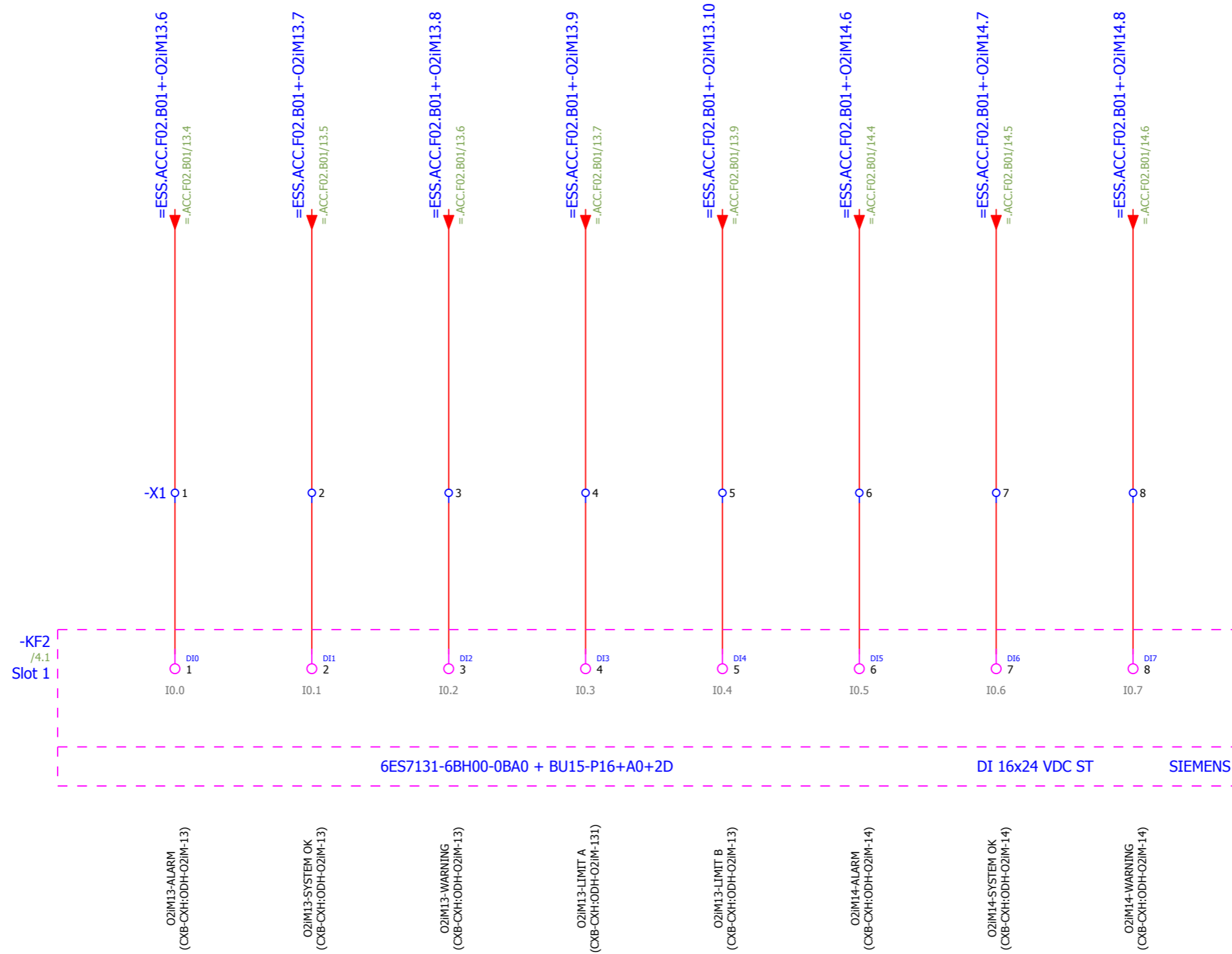
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DESIGN SITE	ESS		

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PAGE TYPE	Schematic multi-line
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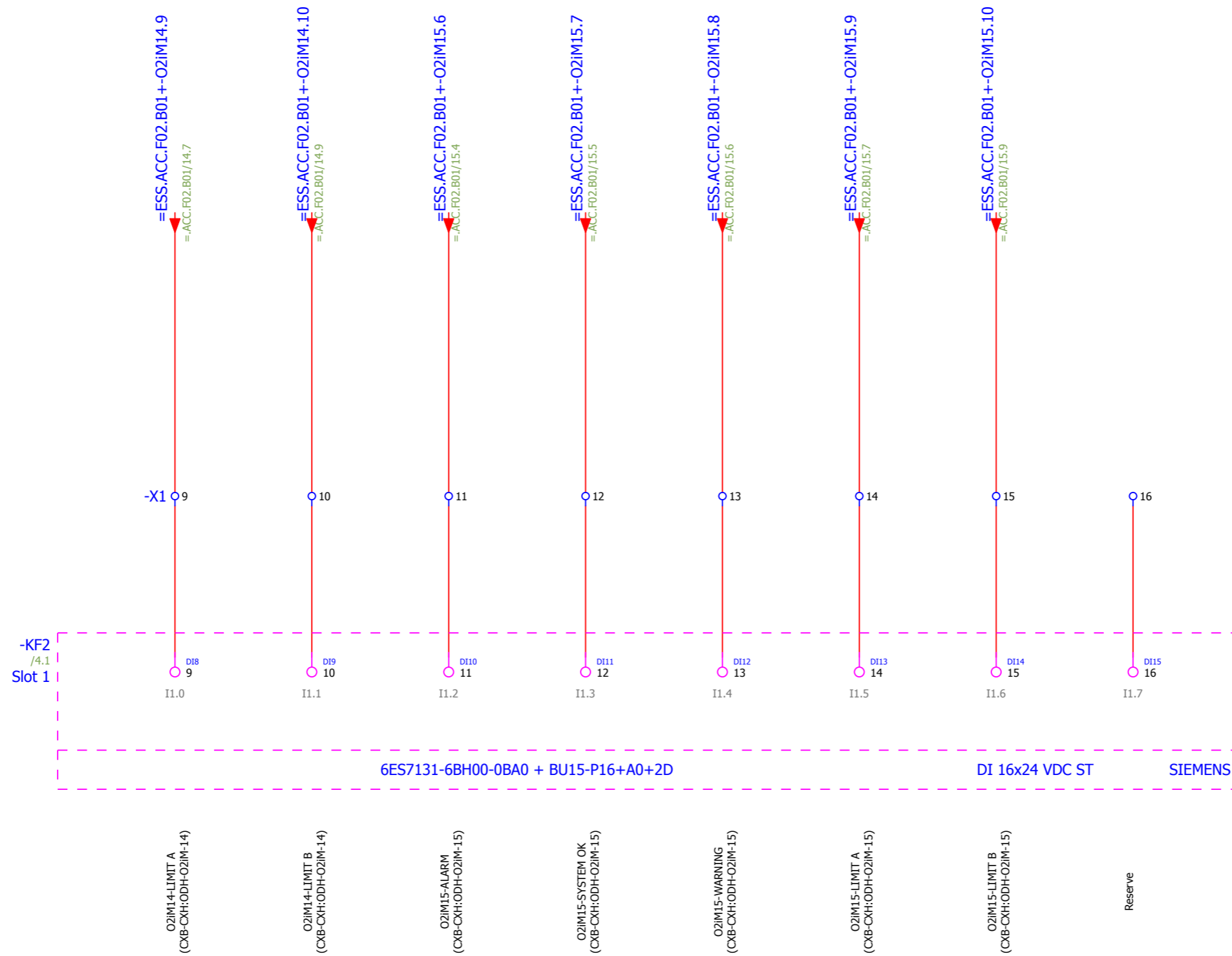
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DESIGN SITE	ESS		

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PAGE TYPE	Schematic multi-line
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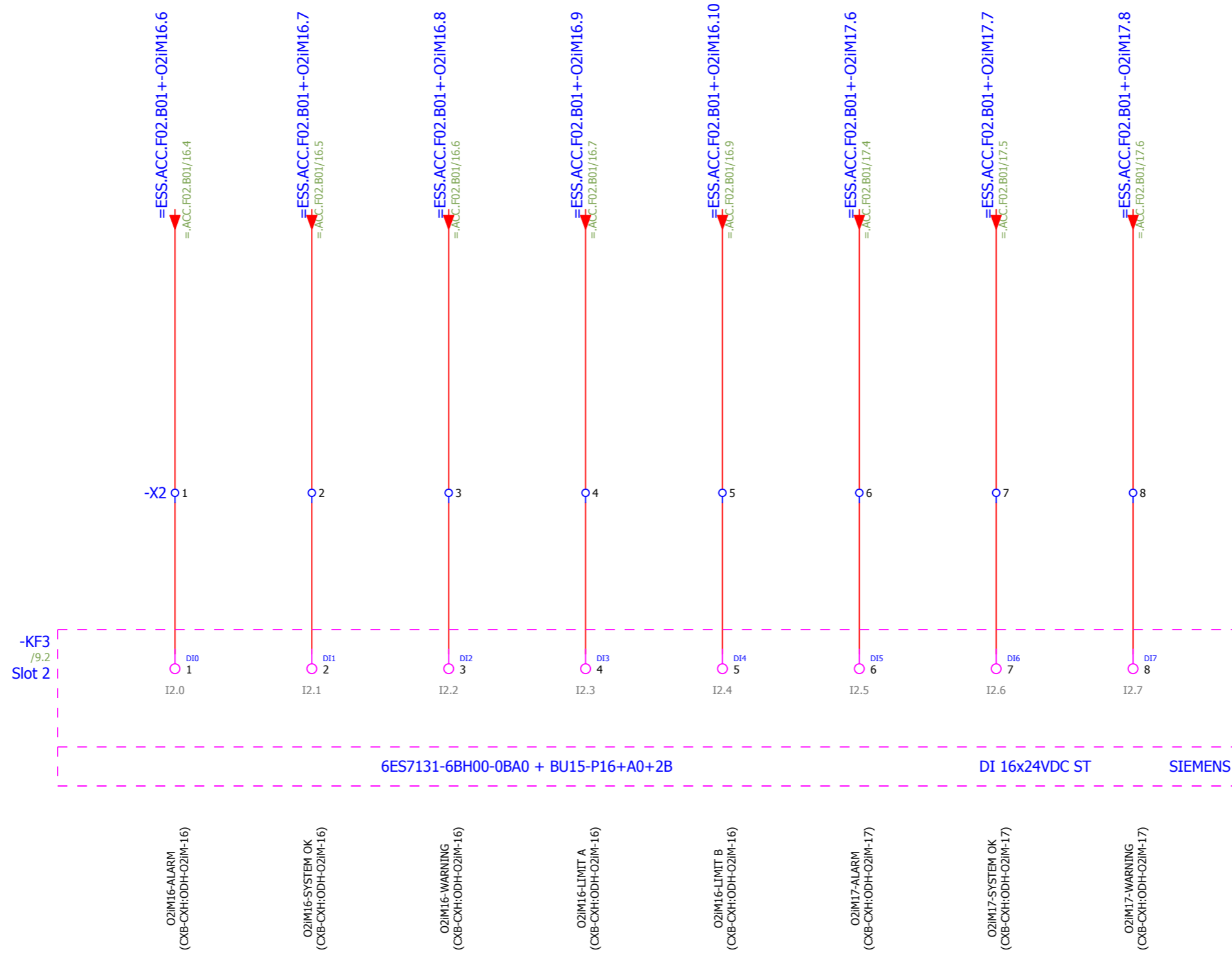
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DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Schematic multi-line
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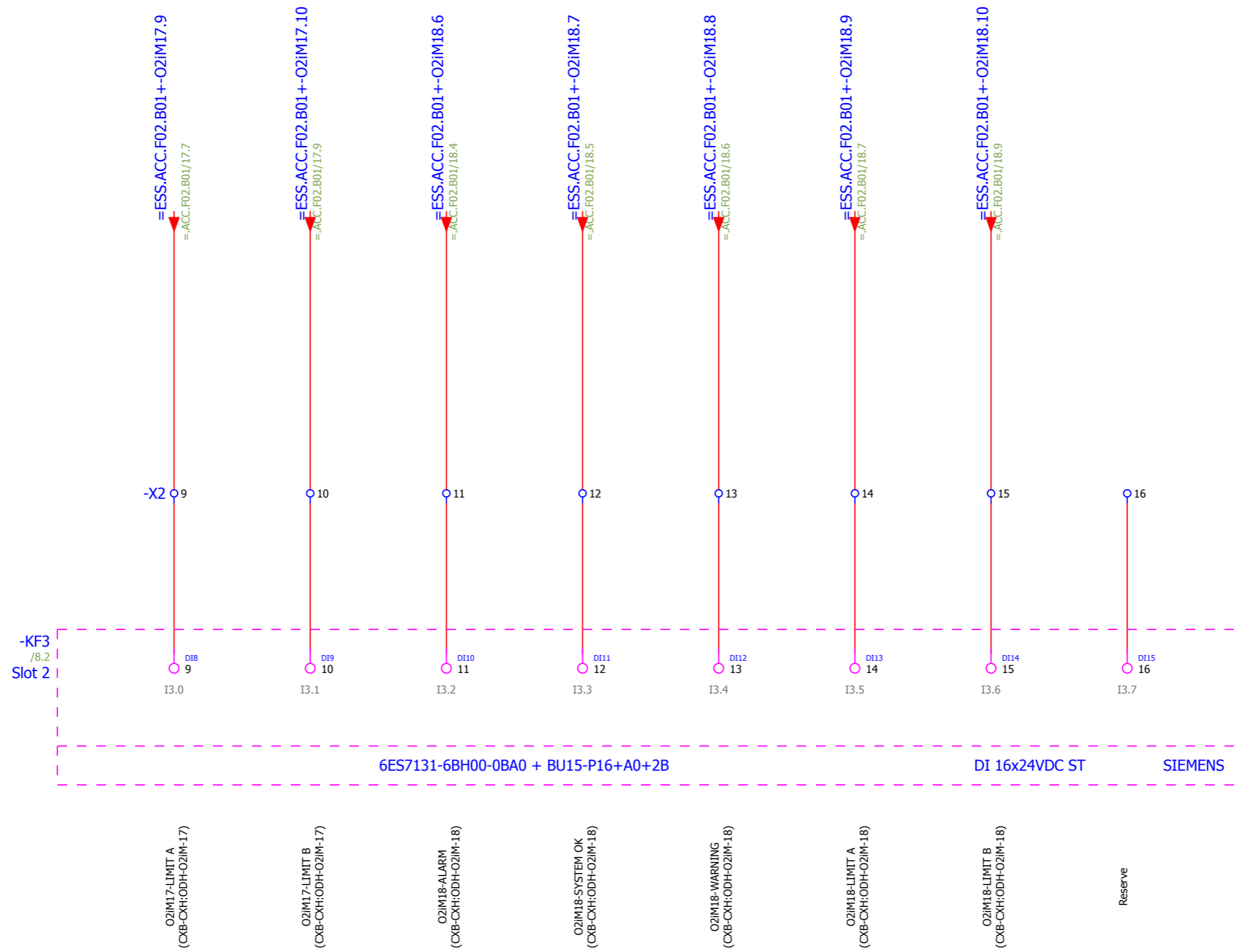
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 DATE
2017-09-01
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01-Sep-17
 DESIGN SITE
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DRAWING TITLE
Accelerator ODH Detection System
 PAGE TYPE
Schematic multi-line
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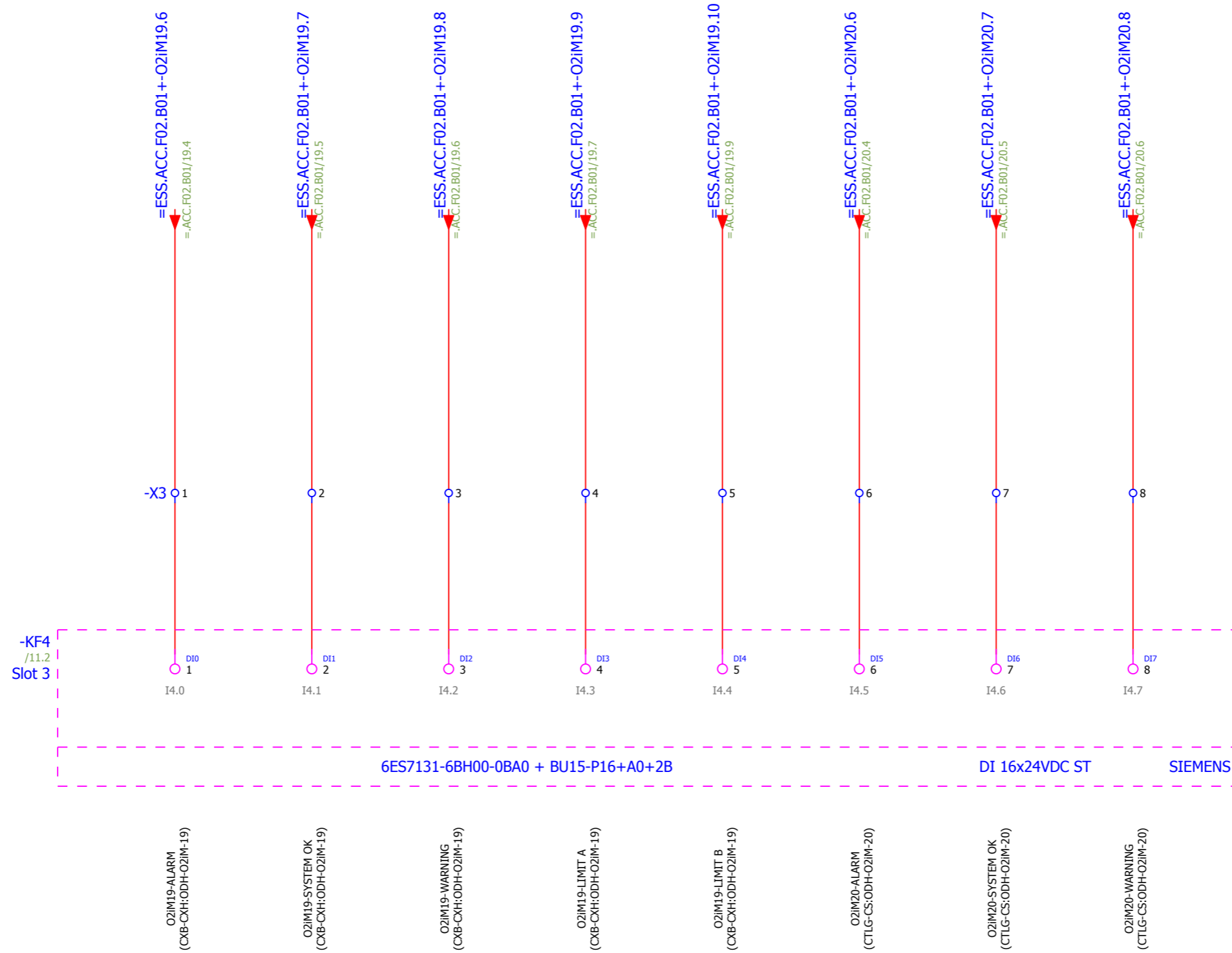
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1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Schematic multi-line
FUNCTION	

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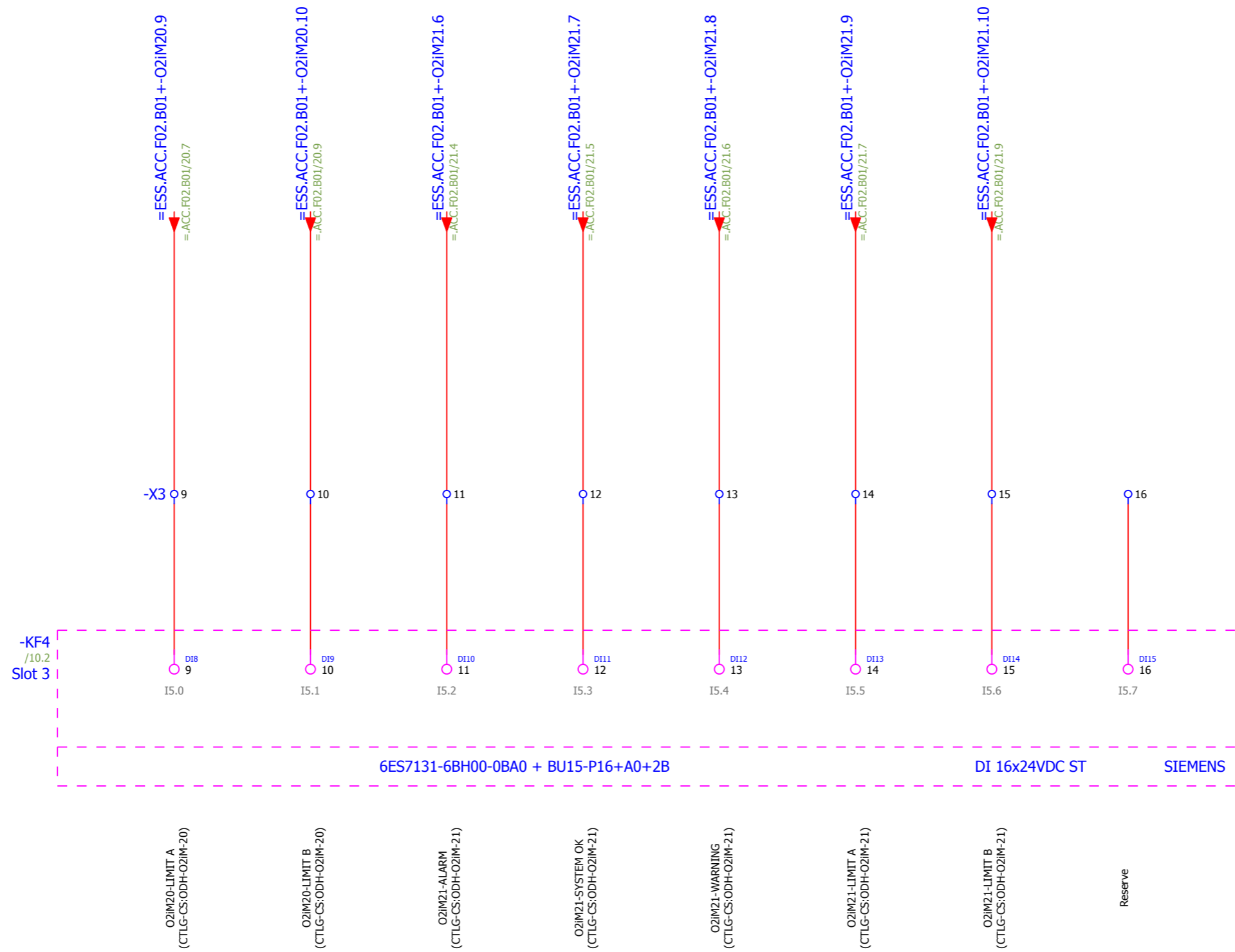
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2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Schematic multi-line
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356			
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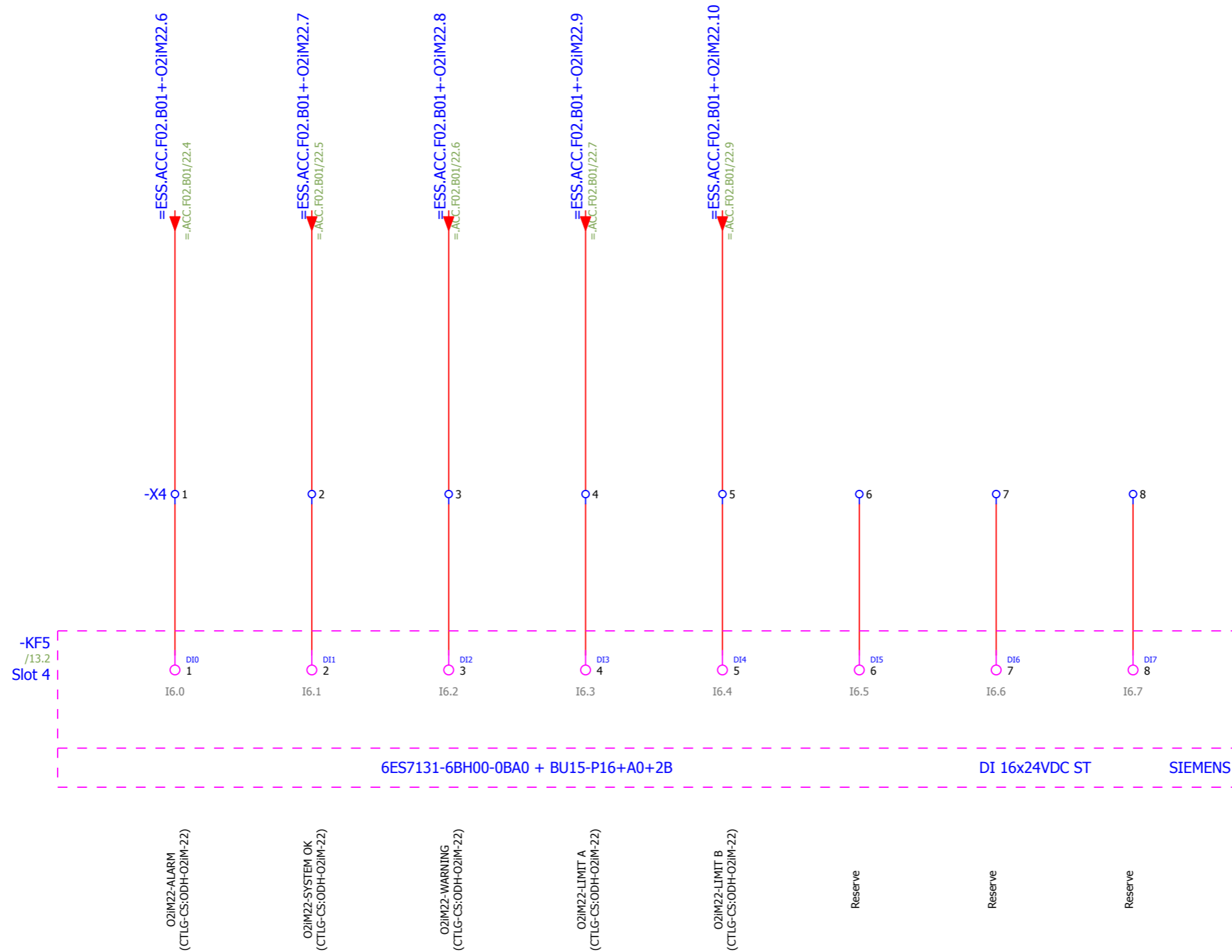
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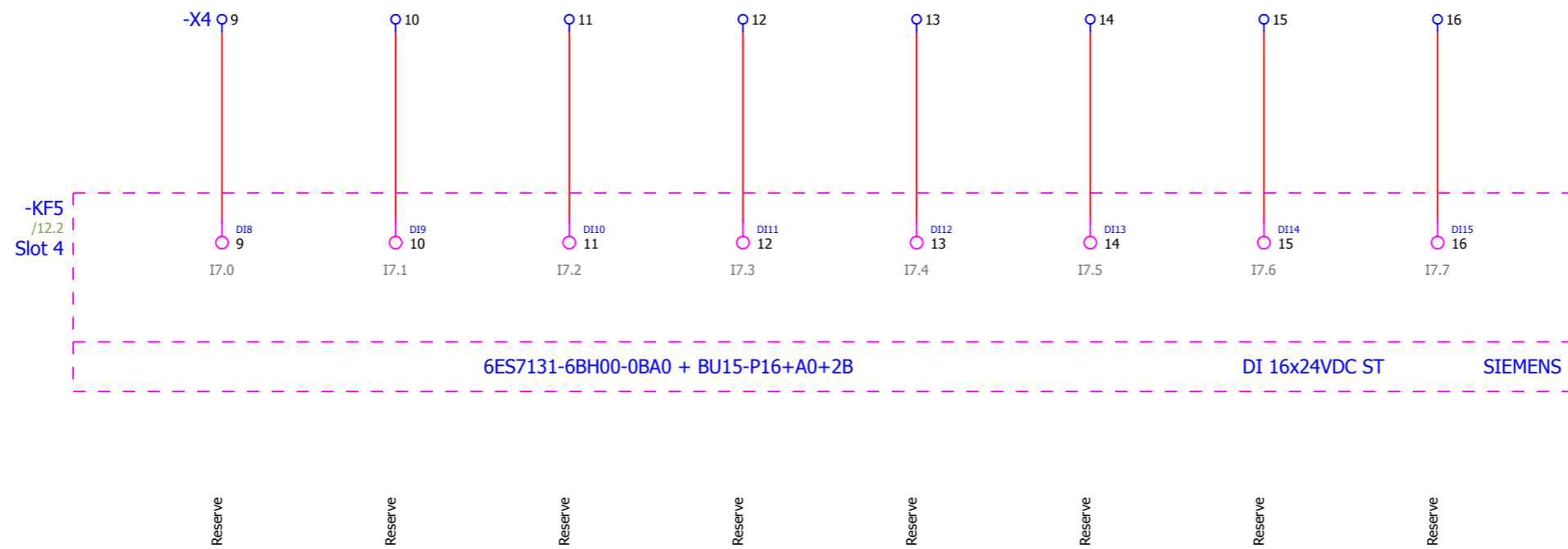
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PAGE TYPE	Schematic multi-line
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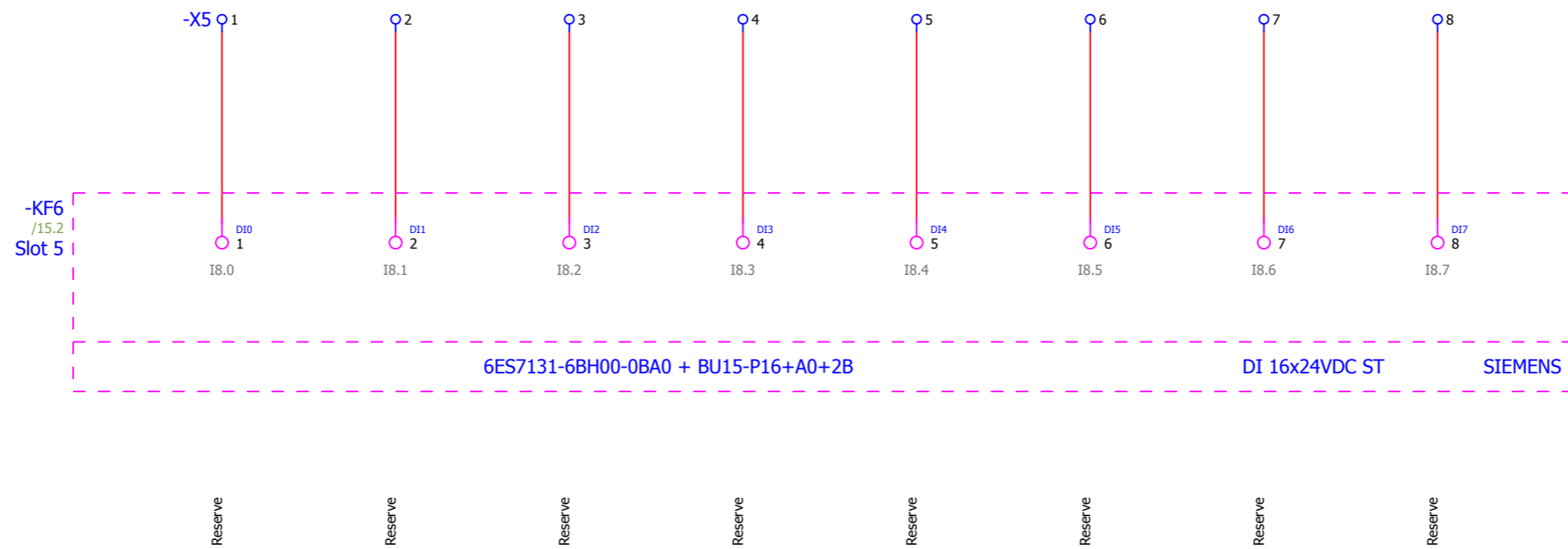
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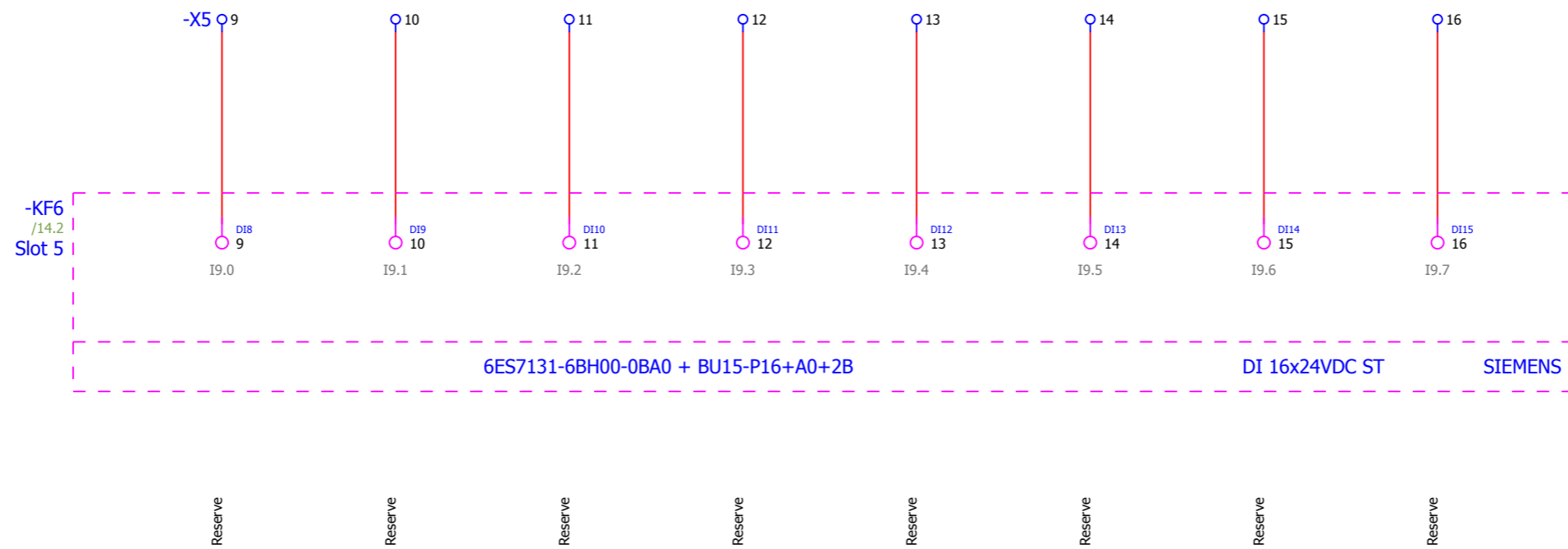
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PAGE TYPE	Schematic multi-line
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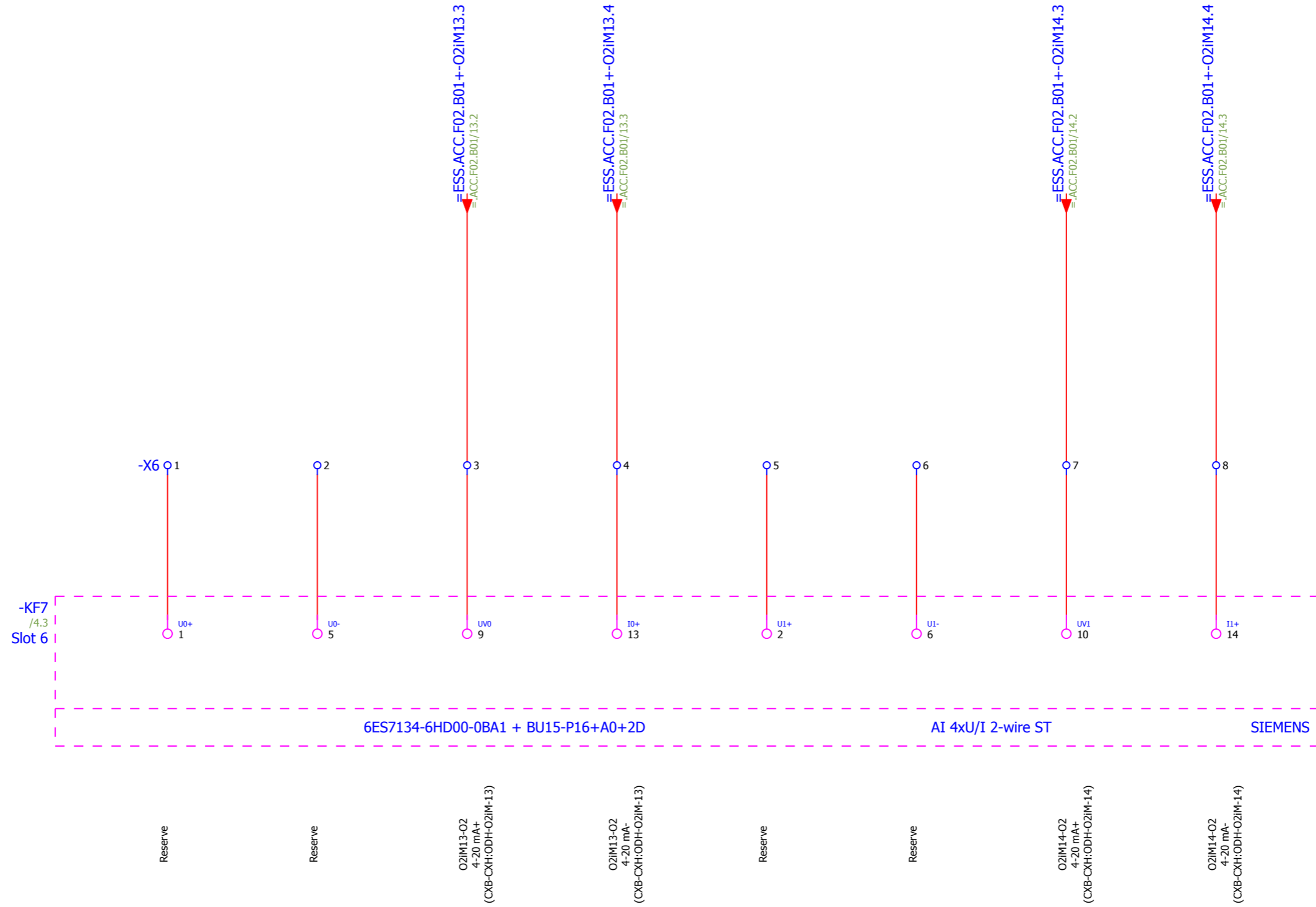
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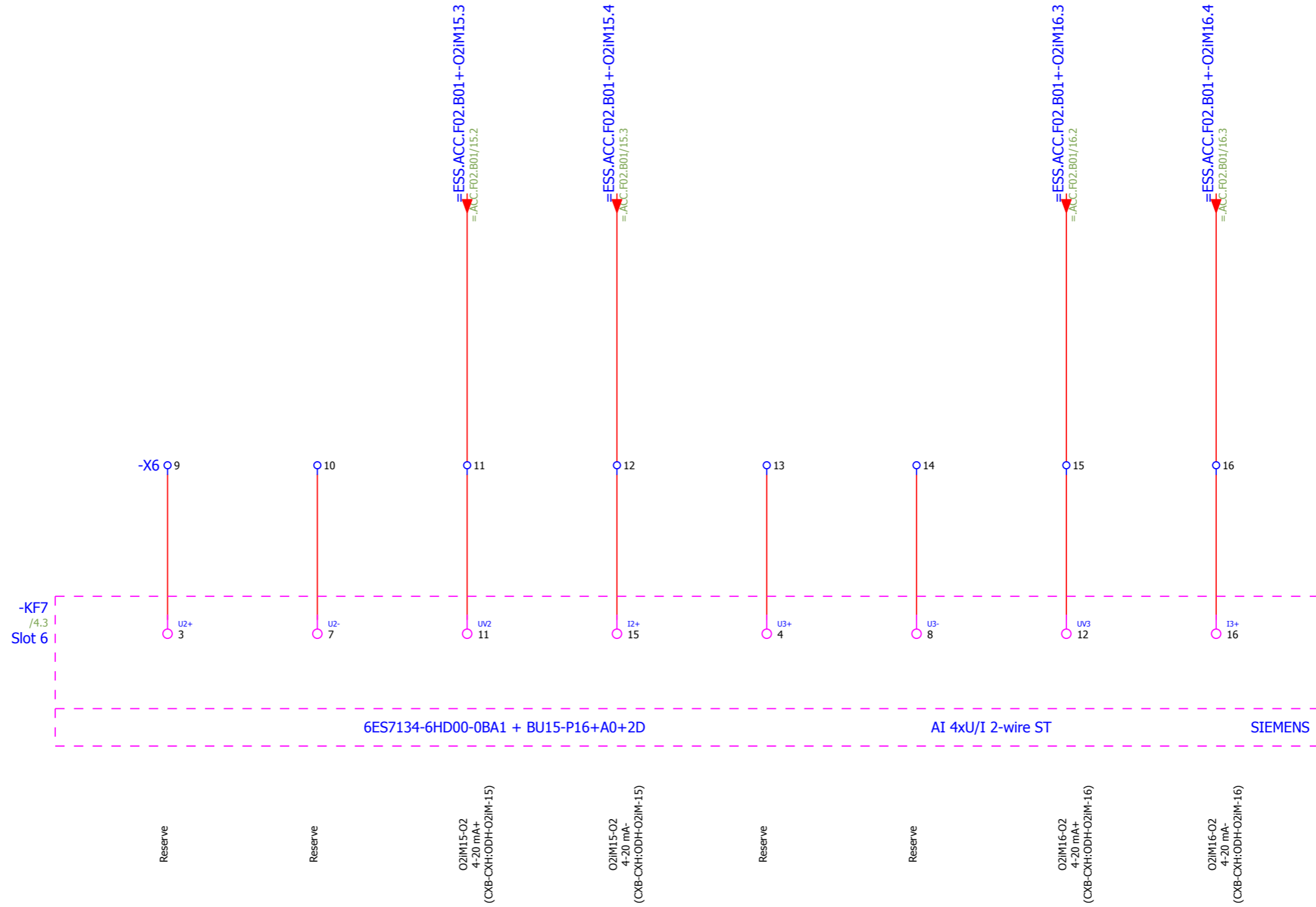
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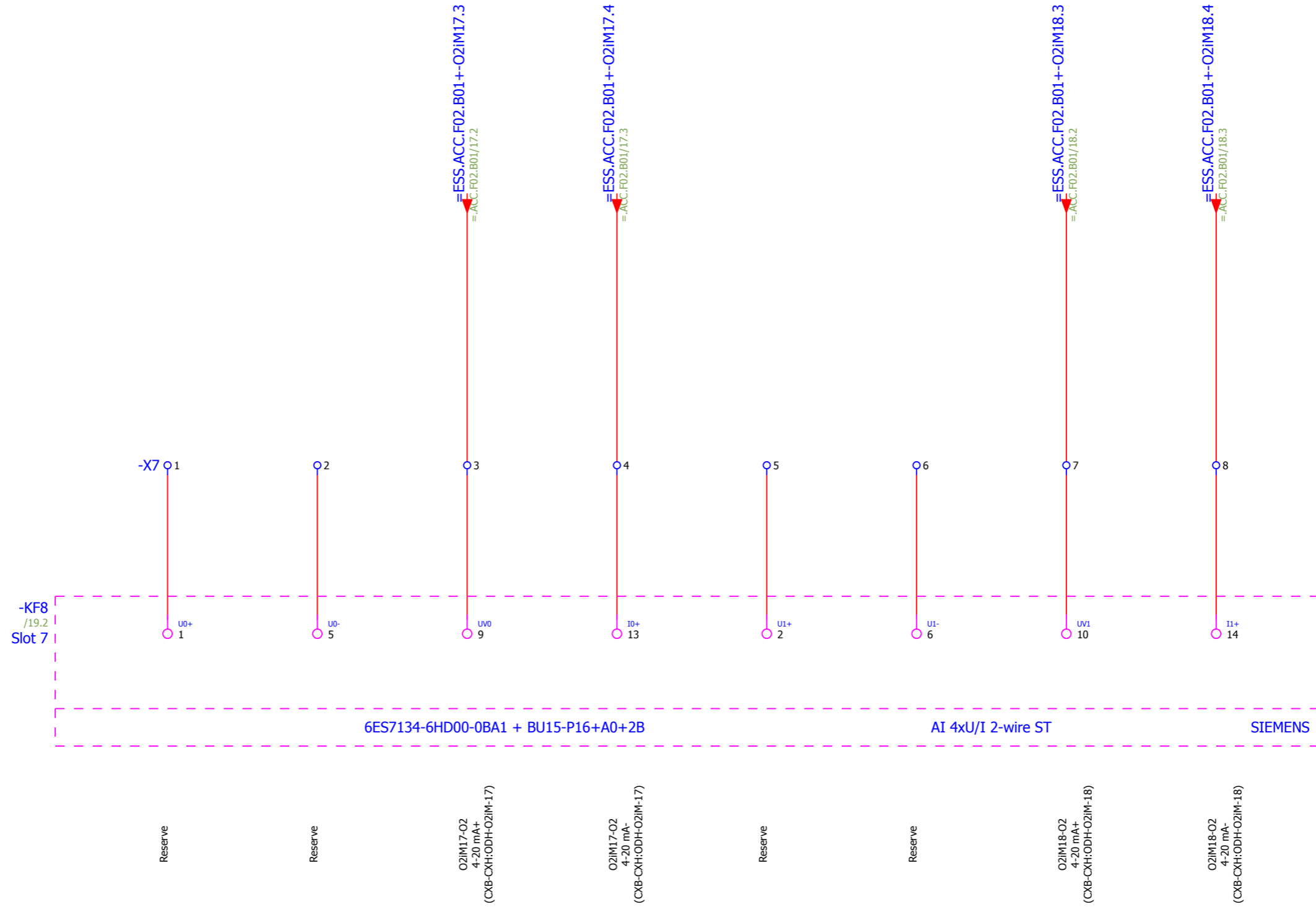


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DESIGN SITE ESS	

DRAWING TITLE Accelerator ODH Detection System	DRAWING NUMBER (Doc) ESS-0089356
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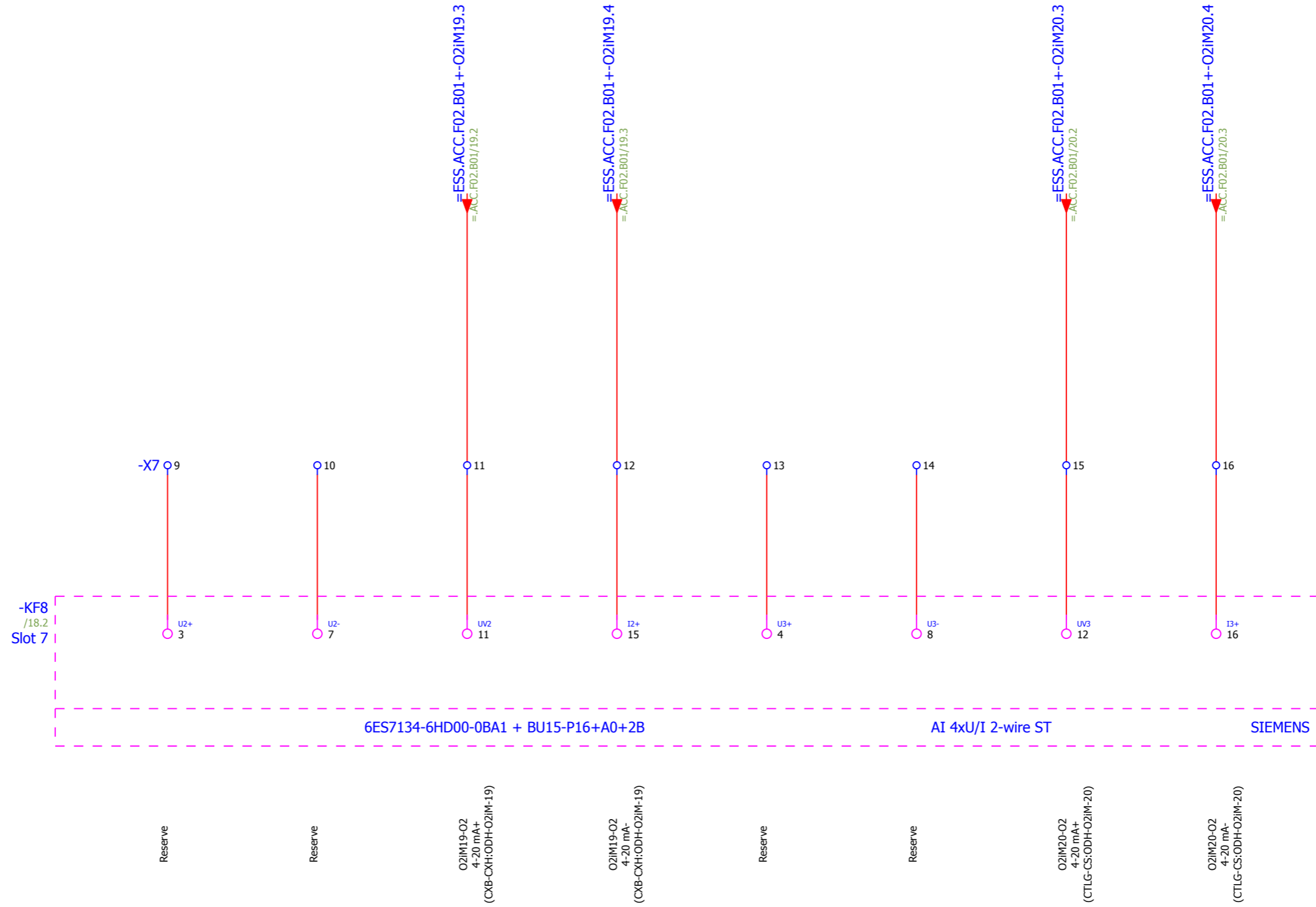
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PAGE TYPE Schematic multi-line
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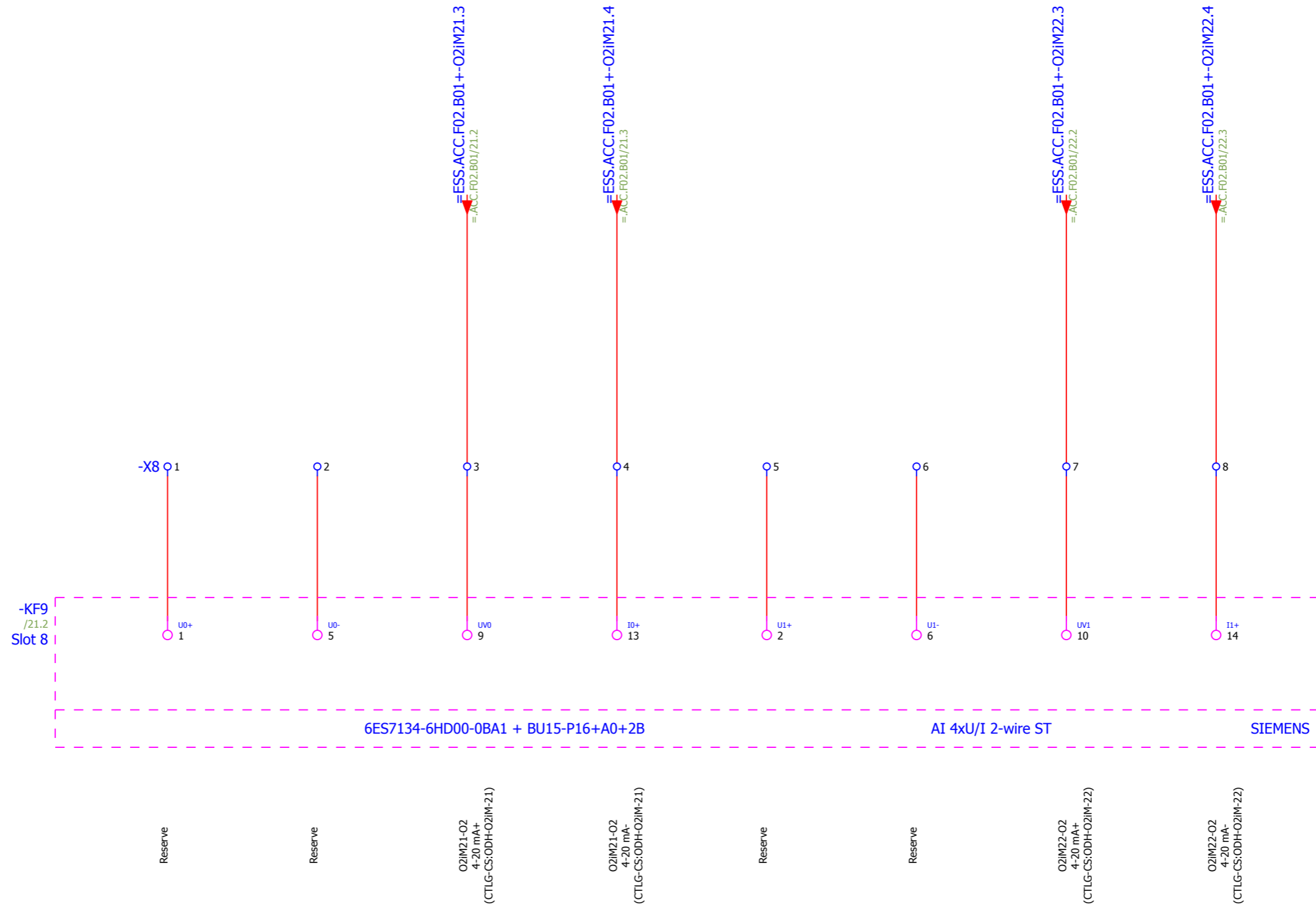
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PAGE TYPE Schematic multi-line
FUNCTION

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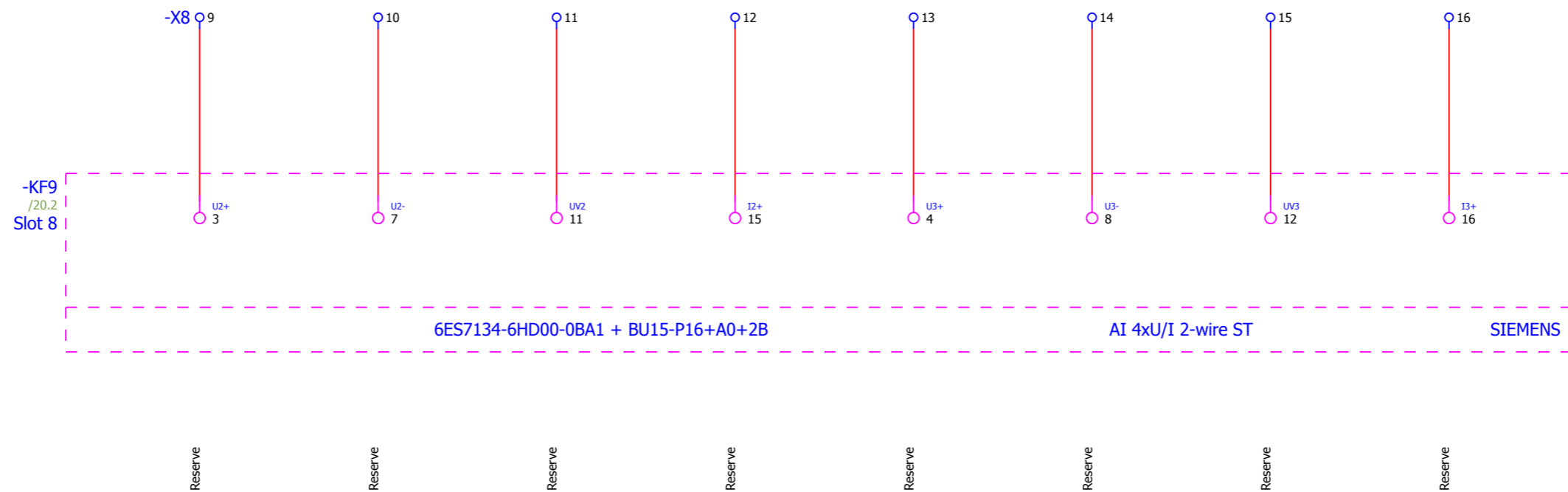
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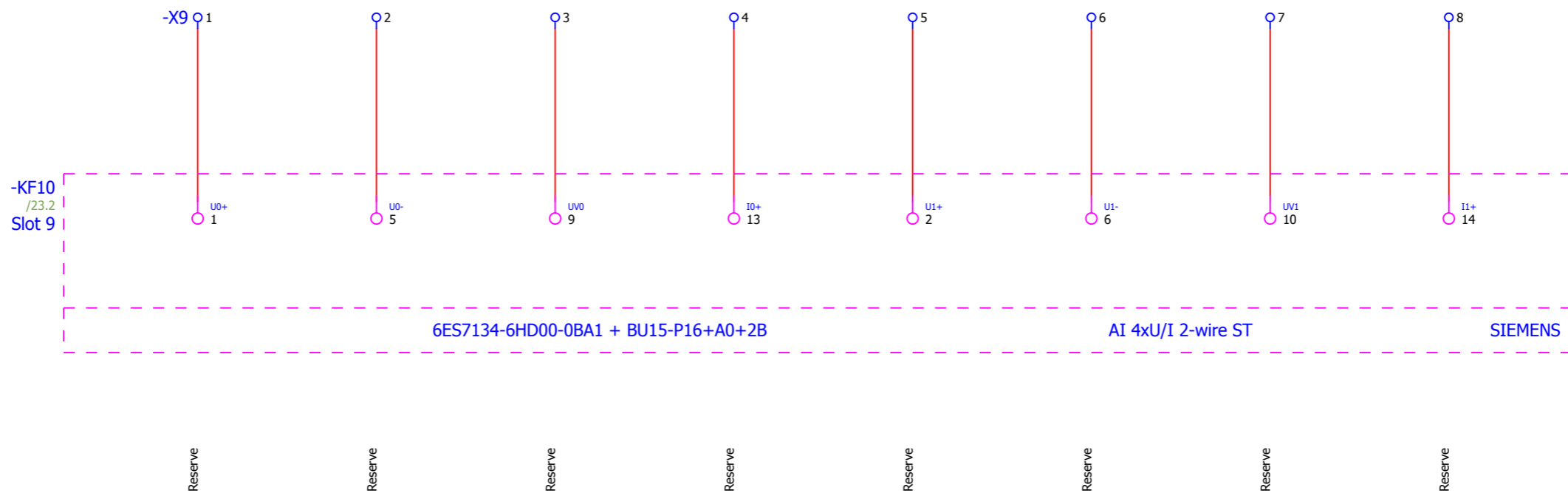
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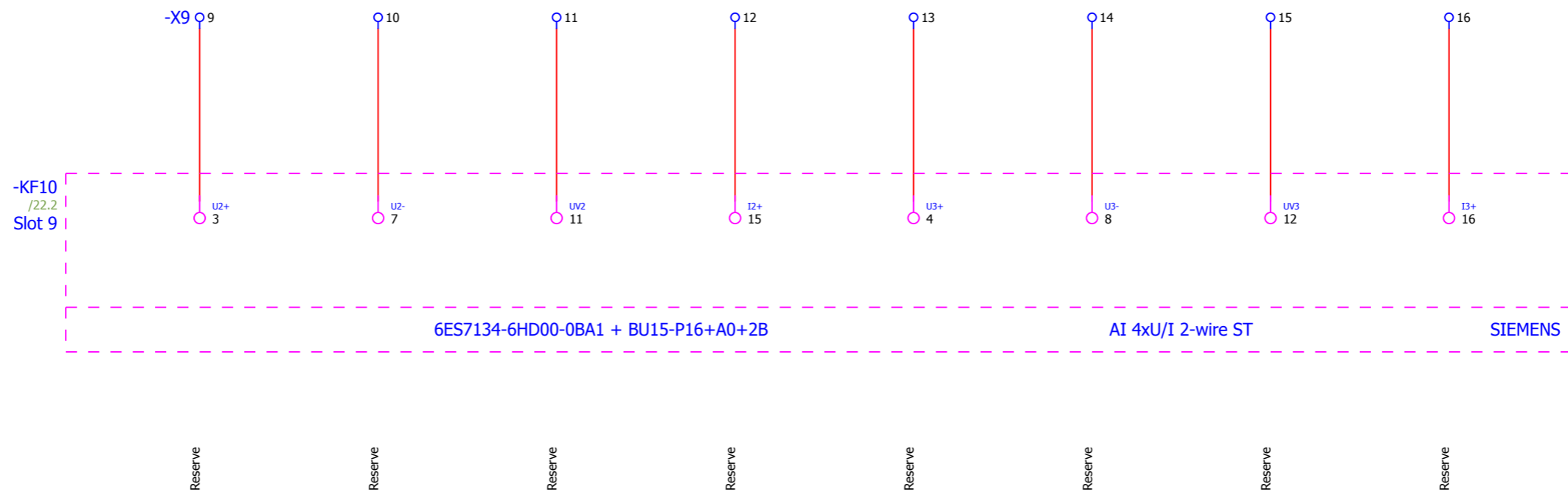
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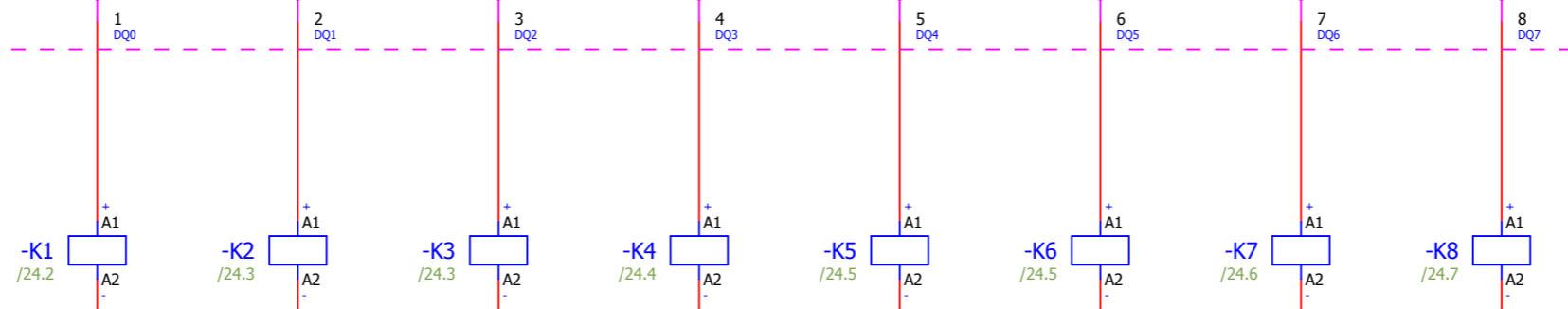
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O2IM14-ALARM ACK SWITCH (CXB-CXH:ODH-O2IM-14)
O2IM15-ALARM ACK SWITCH (CXB-CXH:ODH-O2IM-15)
O2IM16-ALARM ACK SWITCH (CXB-CXH:ODH-O2IM-16)
O2IM17-ALARM ACK SWITCH (CXB-CXH:ODH-O2IM-17)
O2IM18-ALARM ACK SWITCH (CXB-CXH:ODH-O2IM-18)
O2IM19-ALARM ACK SWITCH (CXB-CXH:ODH-O2IM-19)
O2IM20-ALARM ACK SWITCH (CTLG-CS:ODH-O2IM-20)

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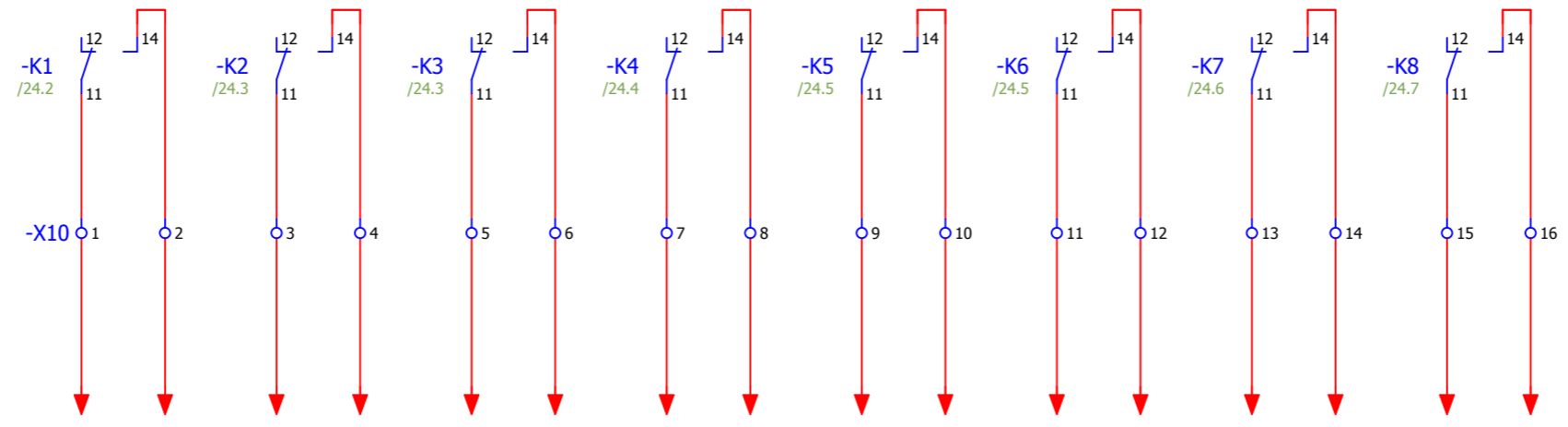
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31.3 / -KF11GND

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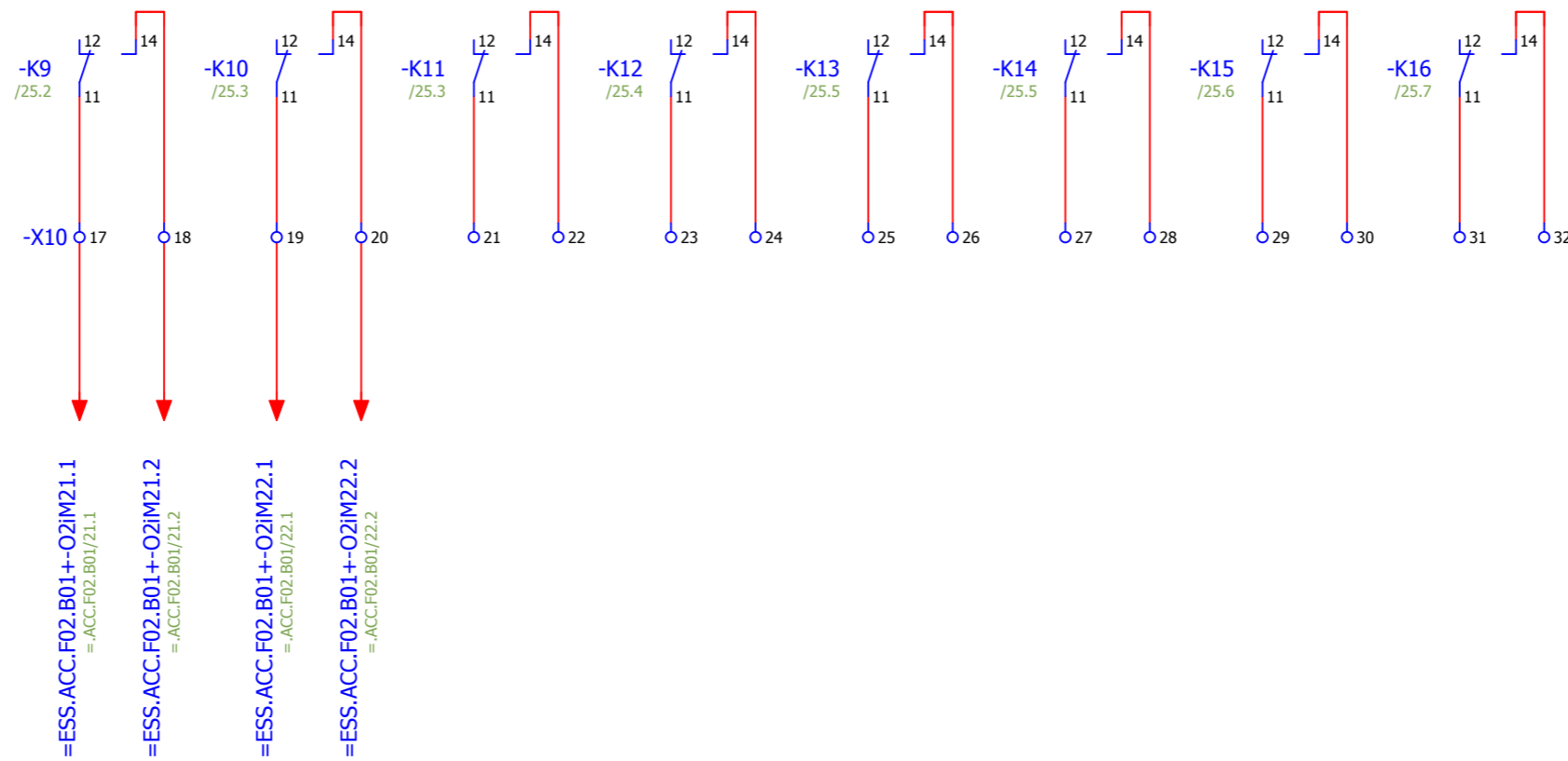
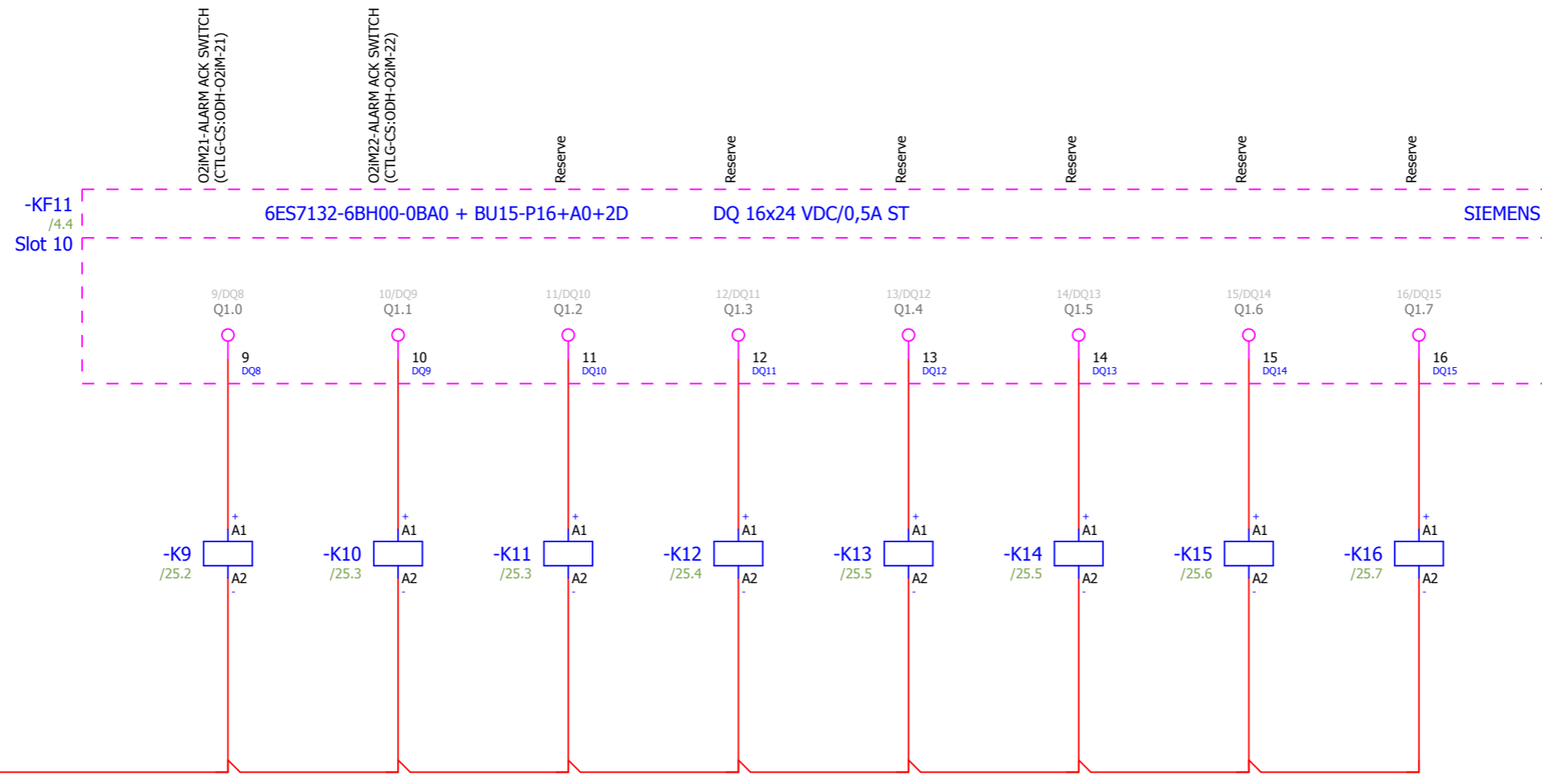
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DRAWING TITLE Accelerator ODH Detection System
PAGE TYPE Schematic multi-line
FUNCTION

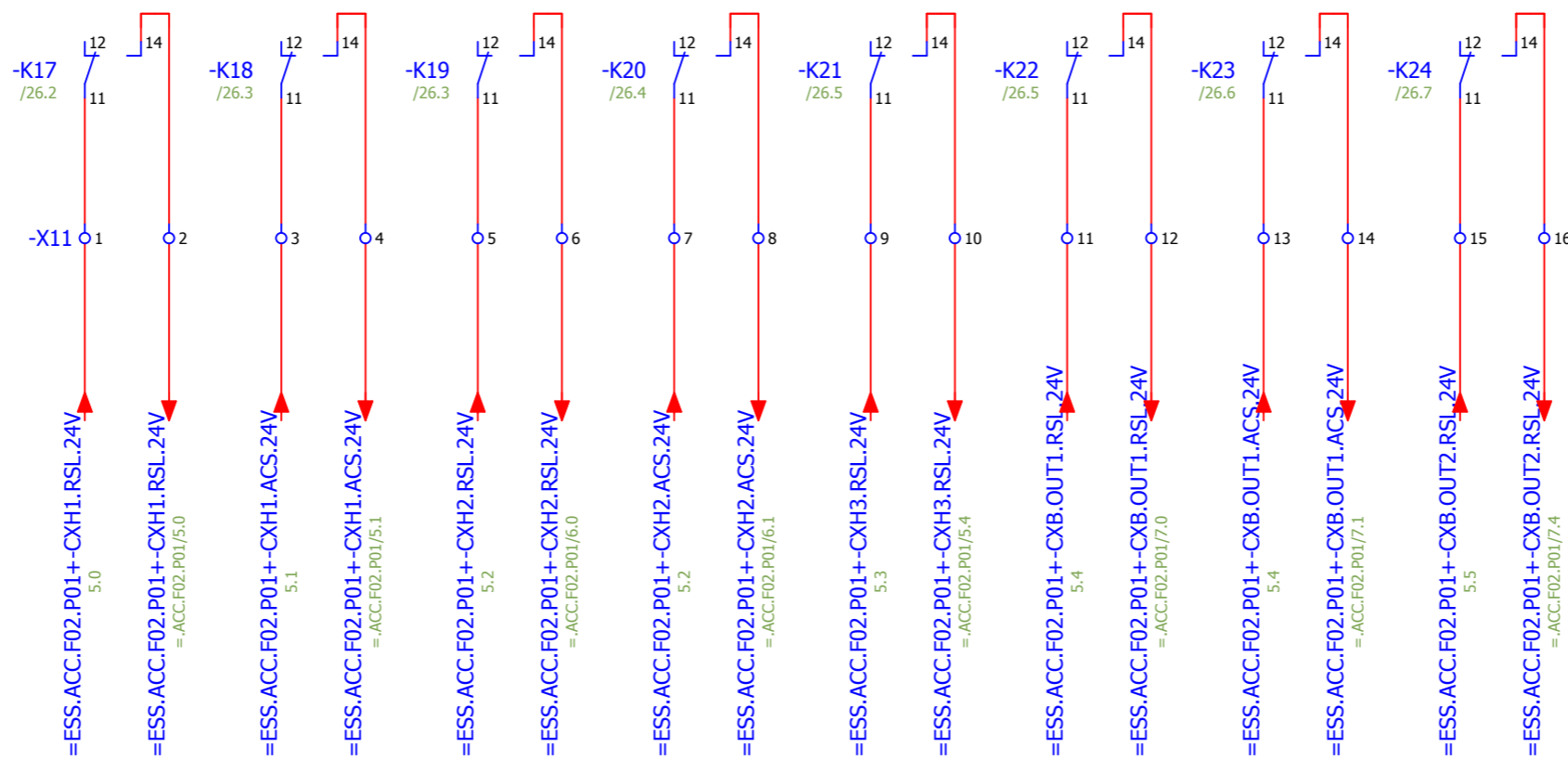
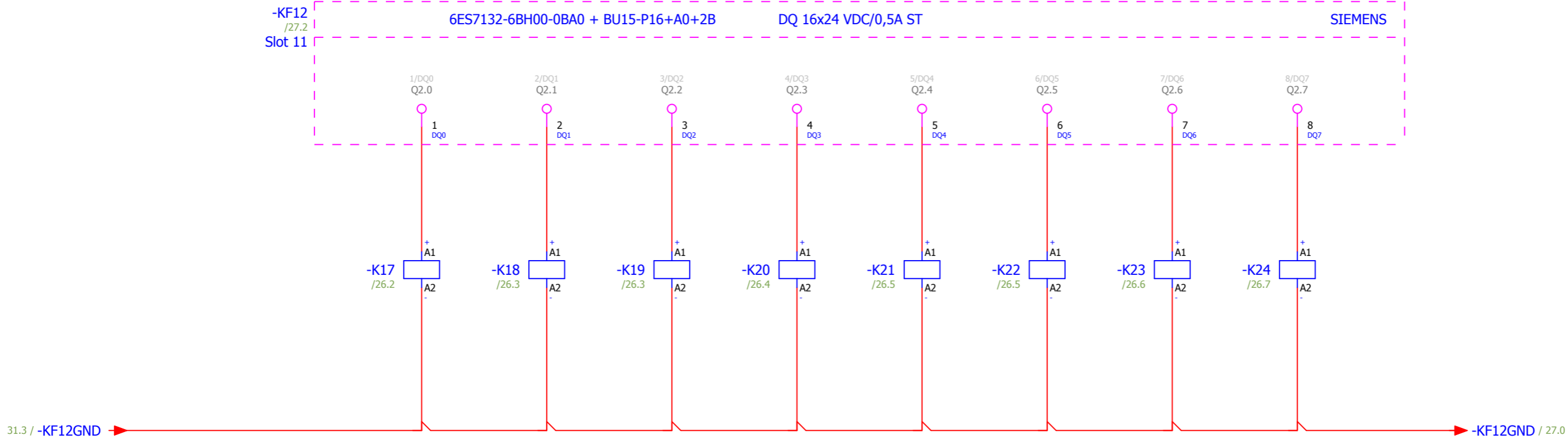
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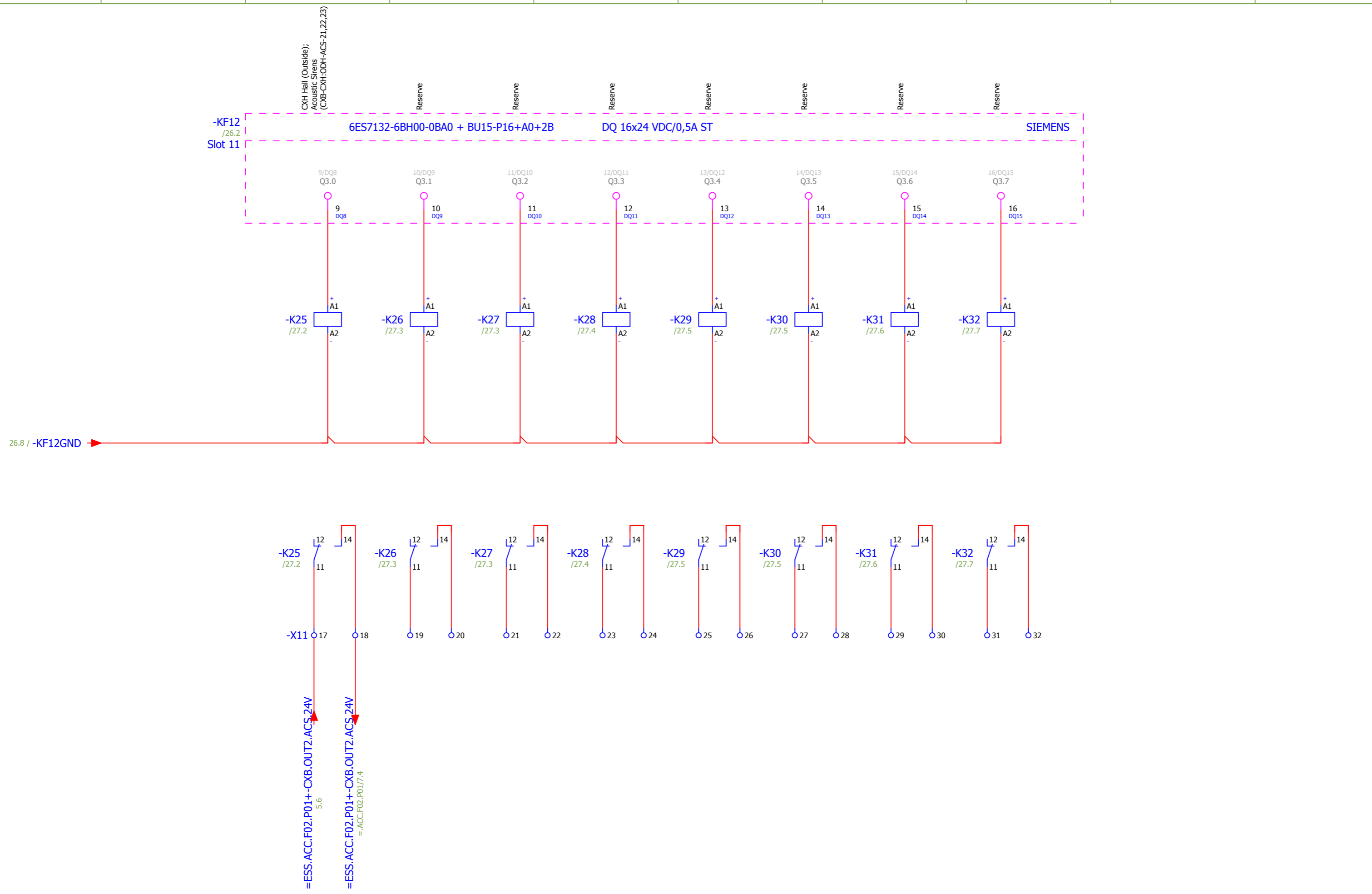


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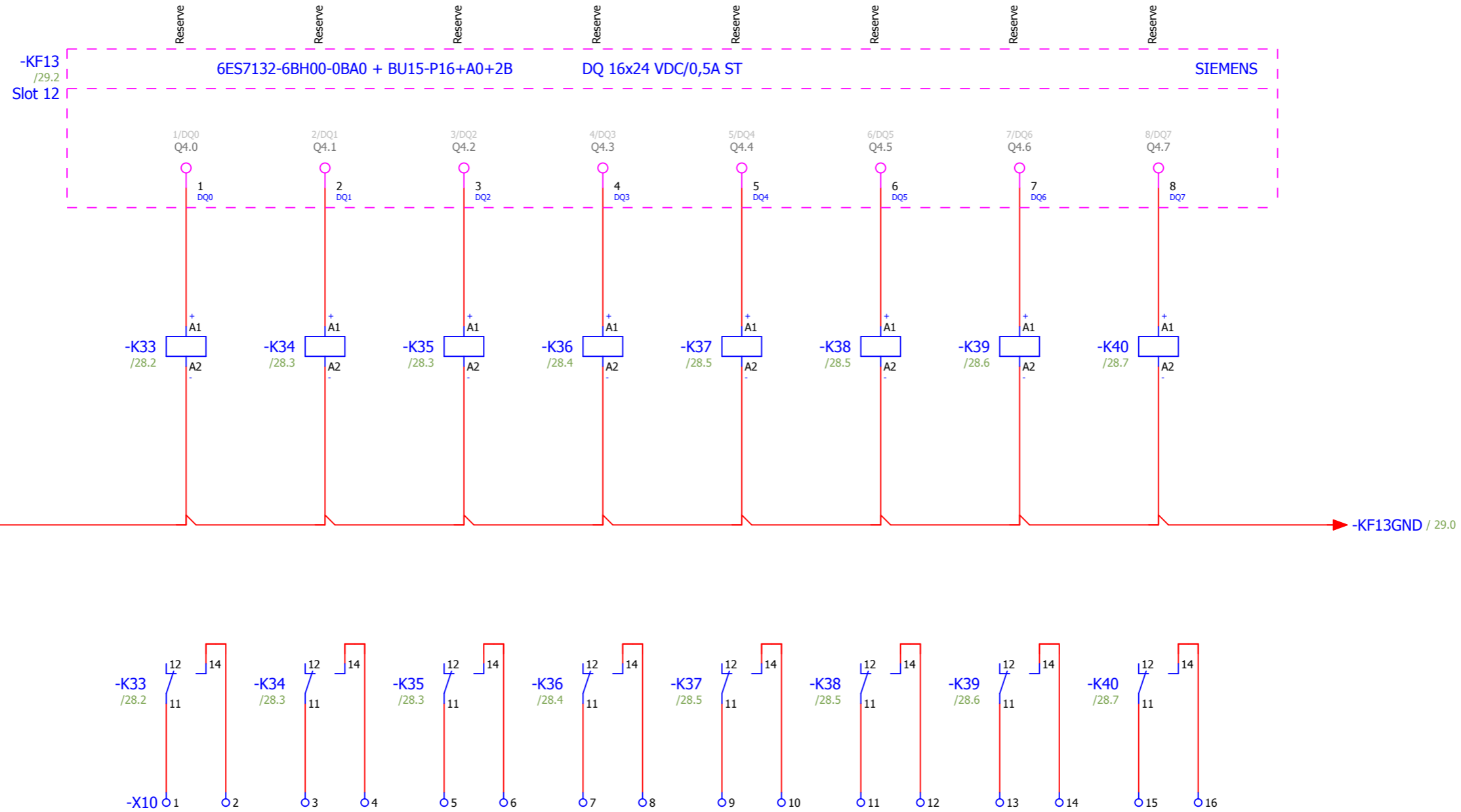
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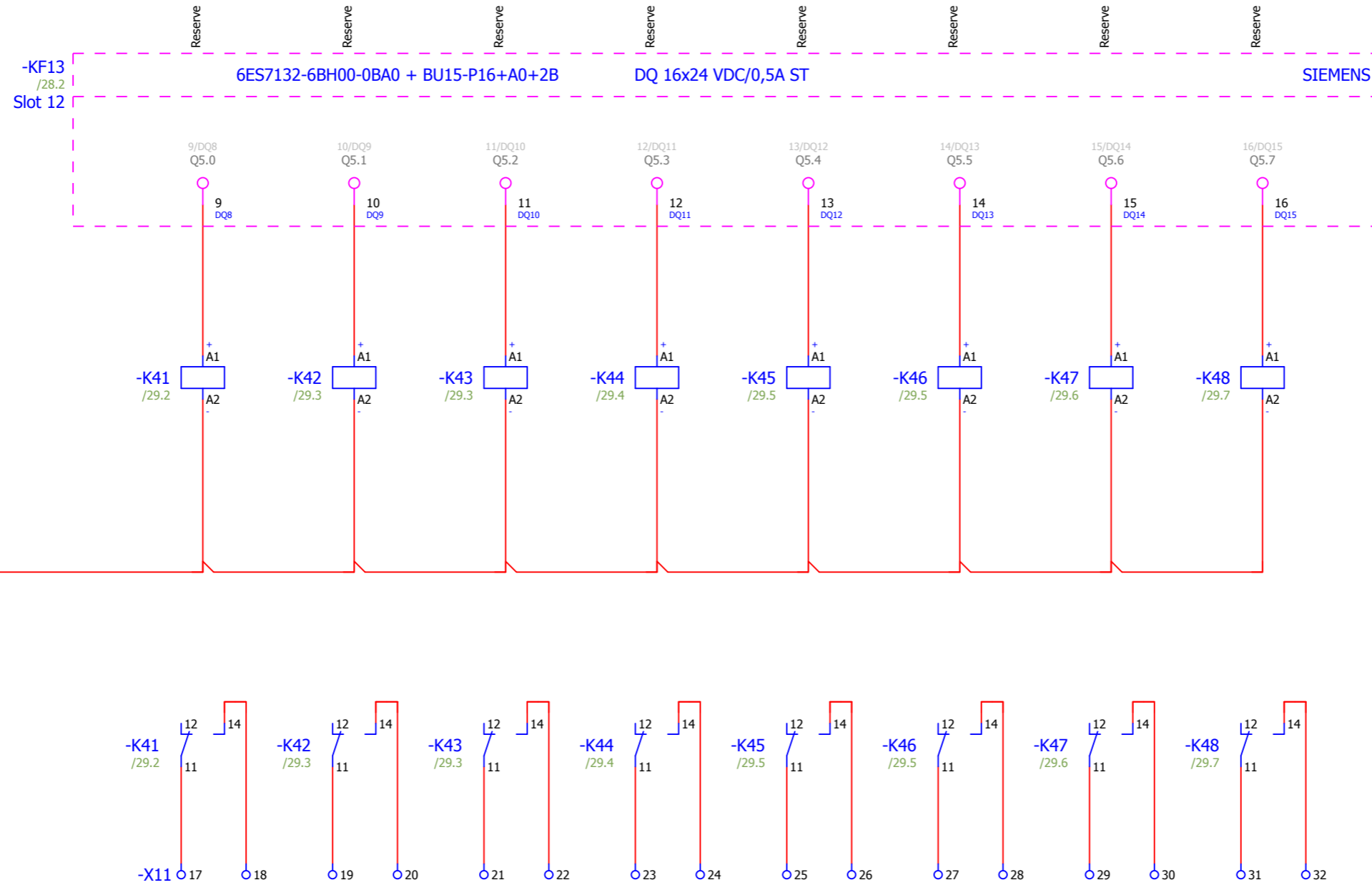
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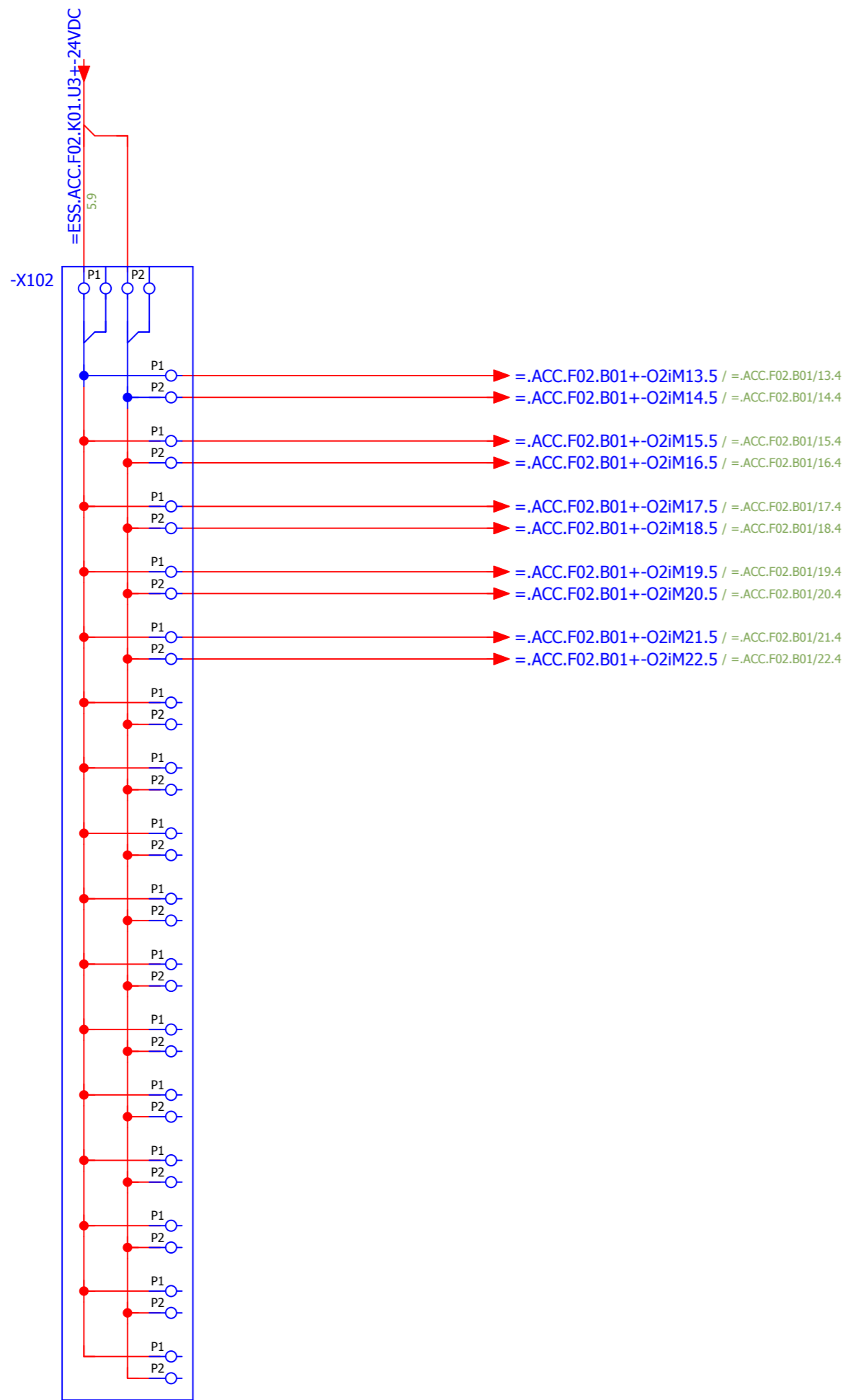
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REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	 EUROPEAN SPALLATION SOURCE <small>Documentation protection ISO 16016</small> 	DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
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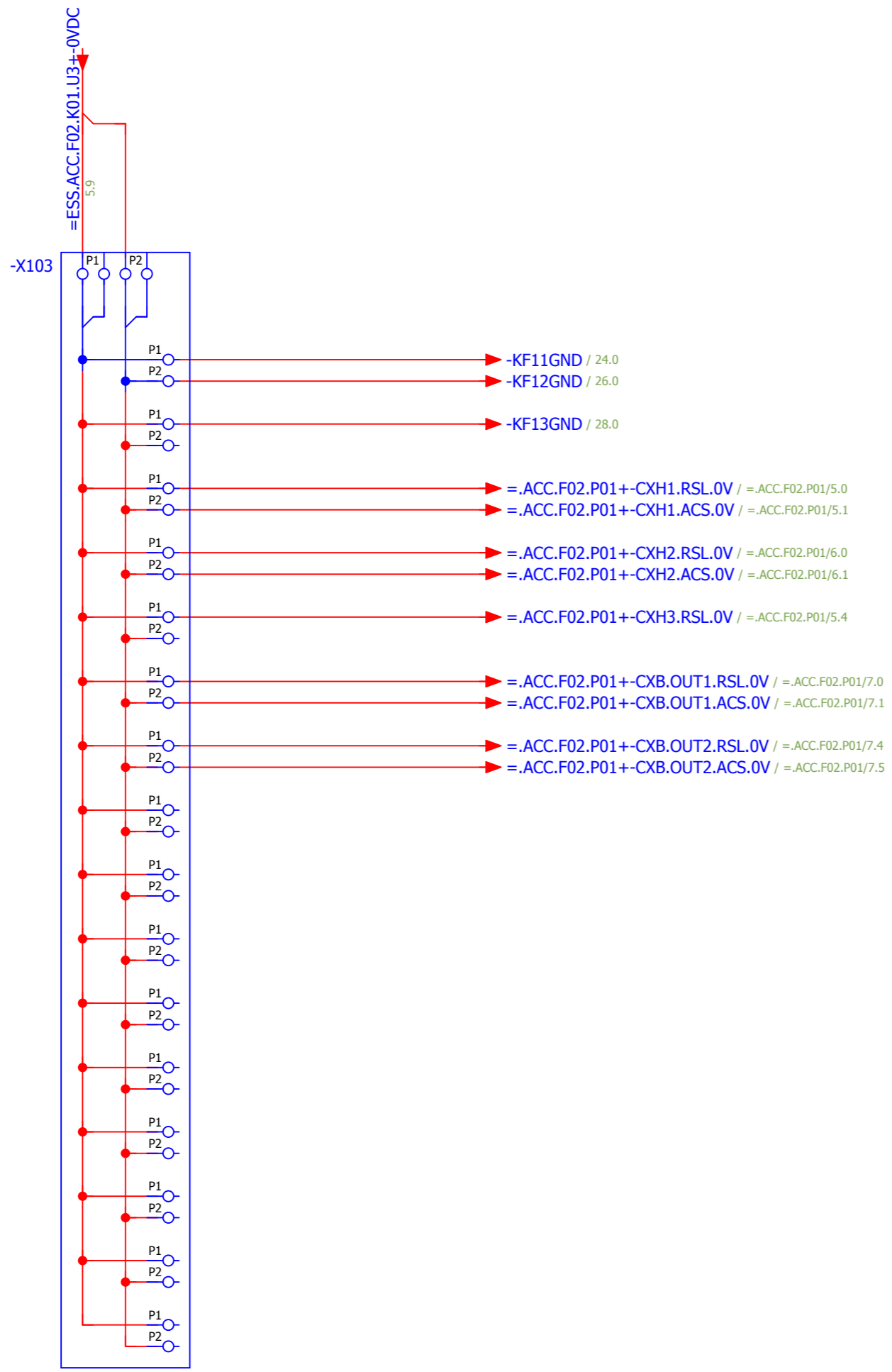
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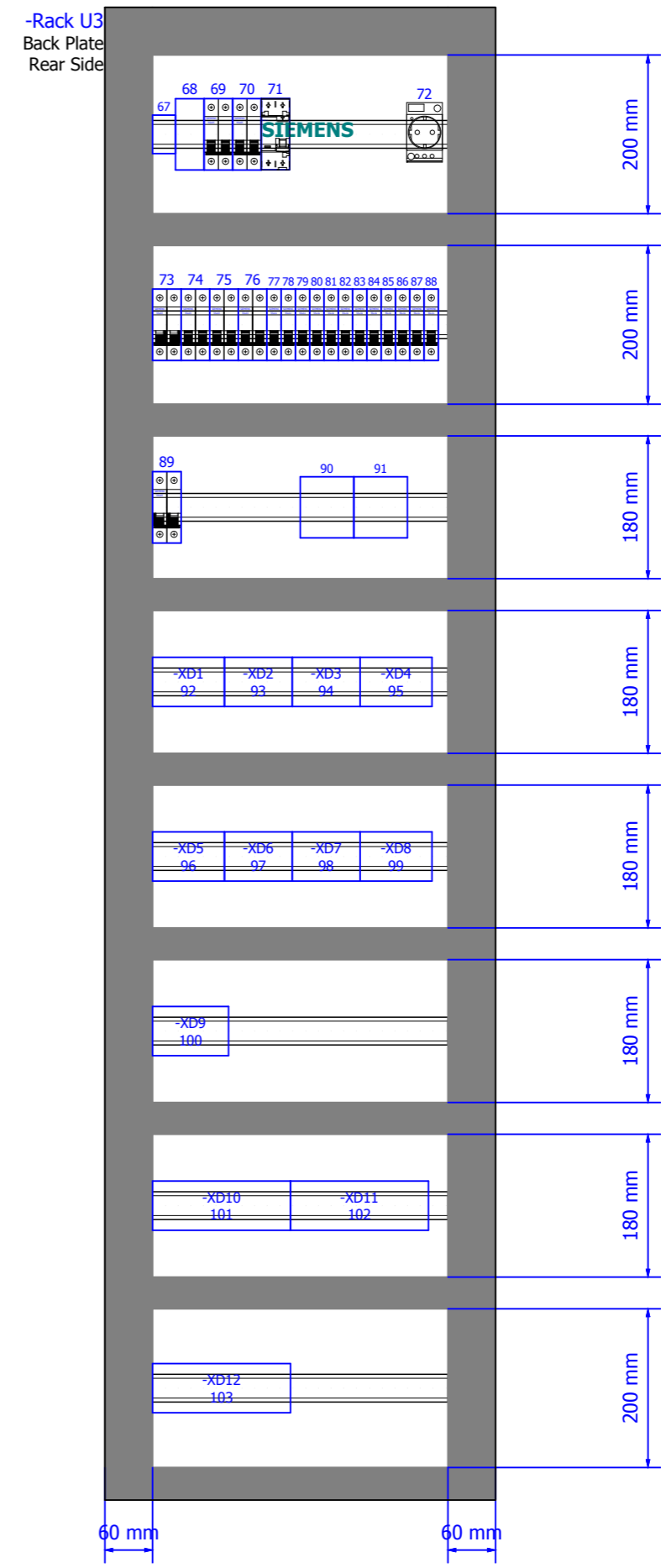
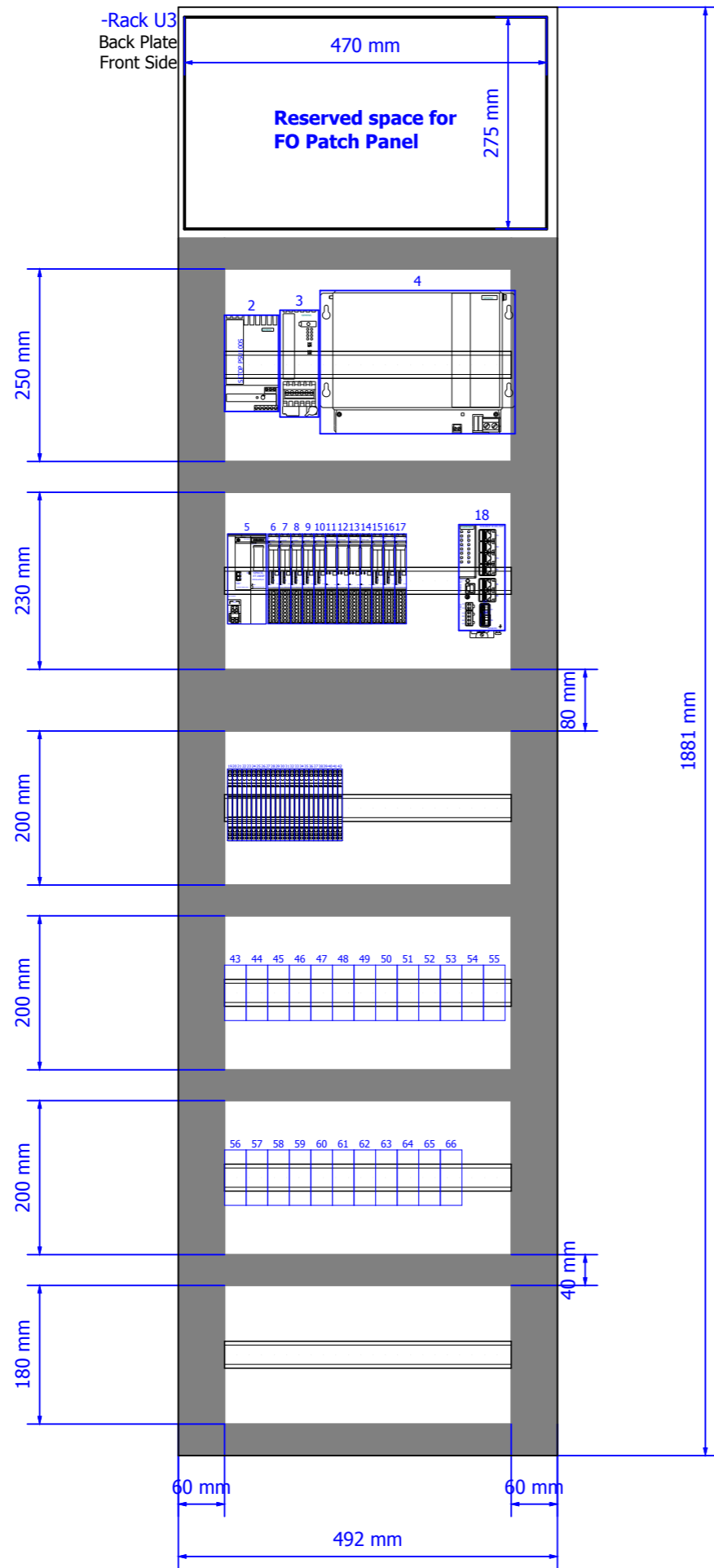
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1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Schematic multi-line
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.K01.U3&FS/31		
NEXT	&LU/1		



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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DRAWN BY MM & ATD	DATE 2017-09-01
CHECKED BY MM	DATE
APPROVED BY SLB	DATE 01-Sep-17
DESIGN SITE ESS	

DRAWING TITLE Accelerator ODH Detection System	DRAWING NUMBER (Doc) ESS-0089356
PAGE TYPE Panel layout	LIFECYCLE LABEL Preliminary
FUNCTION	PAGE SIZE A3
	PAGE SCALE 8
	REV 2
	SHEET =ESS.ACC.F02.K01.U3&LU/1
	NEXT 2

Enclosure legend

F18_001

Item number	Device tag	Type number	Part number	Manufacturer	Function text
2	TA1	6EP1334-2BA20	SIE.6EP1334-2BA20	Siemens	
3	RB1	6EP4134-3AB00-2AY0	SIE.6EP4134-3AB00-2AY0	Siemens	
4	GB1	6EP4135-0GB00-0AY0	SIE.6EP4135-0GB00-0AY0	Siemens	
5	KF1	6ES7155-6AU00-0CNO / 6ES7193-6AR00-0AA0	SIE.6ES7155-6AU00-0CNO+BA_2xRJ45	Siemens	
6	KF2	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0DA0	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2D	Siemens	
7	KF3	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
8	KF4	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
9	KF5	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
10	KF6	6ES7131-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7131-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
11	KF7	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0DA0	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0+2D	Siemens	
12	KF8	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0BA0	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0+2B	Siemens	
13	KF9	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0BA0	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0+2B	Siemens	
14	KF10	6ES7134-6HD00-0BA1 / 6ES7193-6BP00-0BA0	SIE.6ES7134-6HD00-0BA1+BU15-P16+A0+2B	Siemens	
15	KF11	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0DA0	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0+2D	Siemens	
16	KF12	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
17	KF13	6ES7132-6BH00-0BA0 / 6ES7193-6BP00-0BA0	SIE.6ES7132-6BH00-0BA0+BU15-P16+A0+2B	Siemens	
18	XF1	6GK5206-2BS00-2AC2	SIE.6GK5206-2BS00-2AC2	Siemens	
19	K1	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
20	K2	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
21	K3	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
22	K4	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
23	K5	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
24	K6	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
25	K7	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
26	K8	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
27	K9	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
28	K10	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
29	K11	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
30	K12	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
31	K13	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
32	K14	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
33	K15	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
34	K16	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
35	K33	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
36	K34	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
37	K35	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
38	K36	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
39	K37	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
40	K38	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
41	K39	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
42	K40	3RQ3118-1AB00	SIE.3RQ3118-1AB00	Siemens	
43	K17	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
44	K18	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
45	K19	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
46	K20	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
47	K21	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
48	K22	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
49	K23	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
50	K24	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
51	K25	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
52	K26	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
53	K27	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
54	K28	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
55	K29	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
56	K30	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
57	K31	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
58	K32	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD		2017-09-01	Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY MM			PAGE TYPE Enclosure legend	LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY SLB		01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.K01.U3&LU/2			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE ESS				NEXT 2.1			



Documentation protection
ISO 16016

Enclosure legend

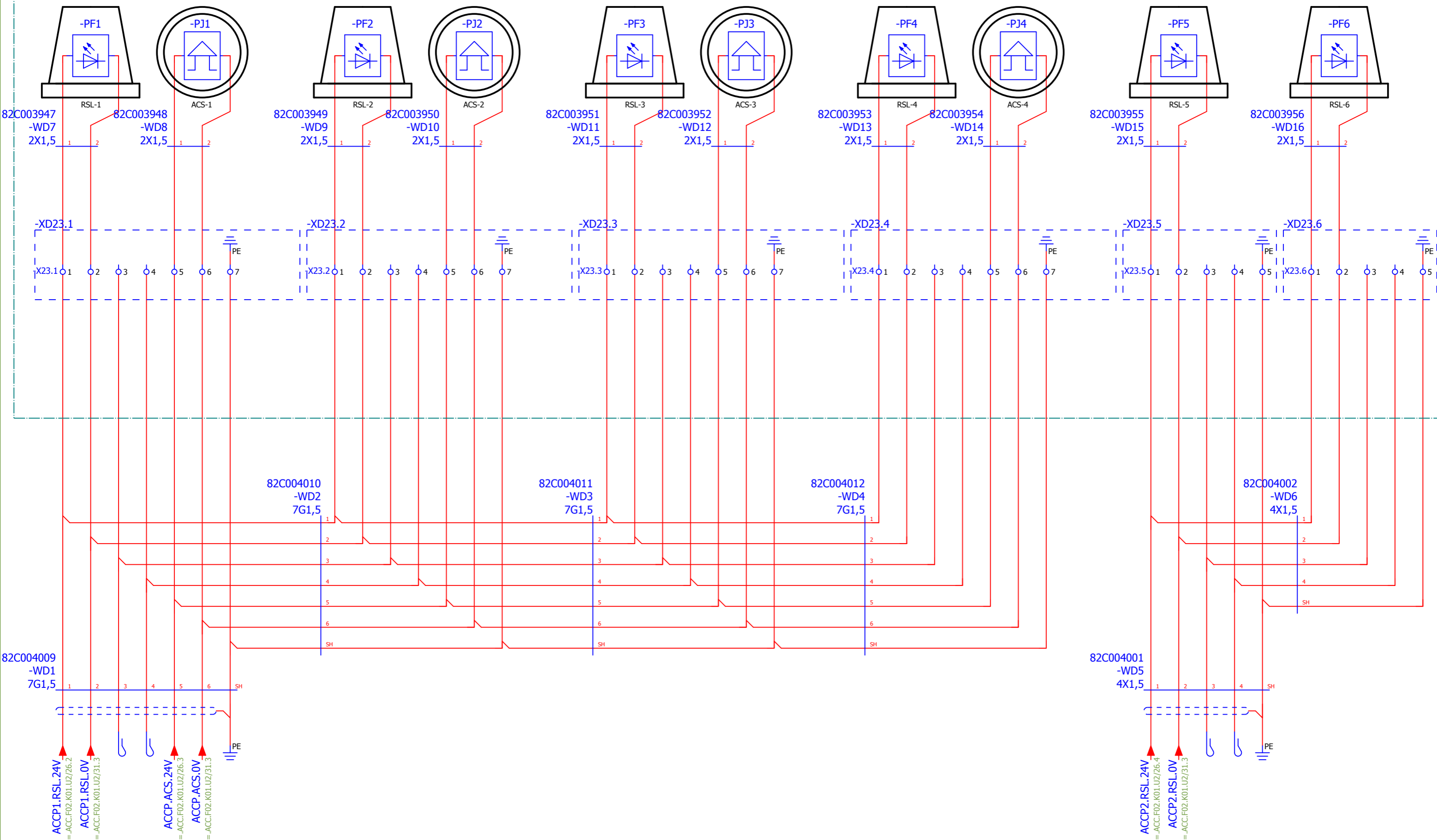
F18_001

Item number	Device tag	Type number	Part number	Manufacturer	Function text
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60	K42	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
61	K43	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
62	K44	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
63	K45	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
64	K46	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
65	K47	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
66	K48	LZS:PT3A5L24	SIE.LZS:PT3A5L24	Siemens	
67	XF1	6GK5991-1AF00-8AA0	SIE.6GK5991-1AF00-8AA0	Siemens	
68	XF1	6GK5991-1AF00-8AA0	SIE.6GK5991-1AF00-8AA0	Siemens	
67	XD0				
68	QB1	5TL1232-0	5TL1232-0	Siemens	
69	FC1	5SL6516-7	SIE.5SL6516-7	Siemens	
70	FC2	5SL6510-7	SIE.5SL6510-7	Siemens	
71	FB1	5SV4311-0	SIE.5SV4311-0	Siemens	
72	XG1	SIE.5TE6800	SIE.5TE6800	Siemens	
73	FC3	5SL6504-7	SIE.5SL6504-7	Siemens	
74	FC4	5SL6504-7	SIE.5SL6504-7	Siemens	
75	FC5	5SL6504-7	SIE.5SL6504-7	Siemens	
76	FC6	5SL6504-7	SIE.5SL6504-7	Siemens	
77	FC7	5SL6101-7	SIE.5SL6101-7	Siemens	
78	FC8	5SL6101-7	SIE.5SL6101-7	Siemens	
79	FC9	5SL6101-7	SIE.5SL6101-7	Siemens	
80	FC10	5SL6101-7	SIE.5SL6101-7	Siemens	
81	FC11	5SL6101-7	SIE.5SL6101-7	Siemens	
82	FC12	5SL6101-7	SIE.5SL6101-7	Siemens	
83	FC13	5SL6101-7	SIE.5SL6101-7	Siemens	
84	FC14	5SL6101-7	SIE.5SL6101-7	Siemens	
85	FC15	5SL6101-7	SIE.5SL6101-7	Siemens	
86	FC16	5SL6101-7	SIE.5SL6101-7	Siemens	
87	FC17	5SL6101-7	SIE.5SL6101-7	Siemens	
88	FC18	5SL6101-7	SIE.5SL6101-7	Siemens	
89	FC19	5SL6504-7	SIE.5SL6504-7	Siemens	
92	XD1				
93	XD2				
94	XD3				
95	XD4				
96	XD5				
97	XD6				
98	XD7				
99	XD8				
100	XD9				
101	XD10				
102	XD11				
103	XD12				

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	MM & ATD	2017-09-01	Accelerator ODH Detection System	ESS-0089356				
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	MM	01-Sep-17	Enclosure legend	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV	
				SLB	01-Sep-17		Preliminary	A3	1	2	
				ESPLAN [®] electric [®] v2.5.4	ESS		SHEET =ESS.ACC.F02.K01.U3&LU/2.1				
							NEXT =.ACC.F02.P01&FS/1				



ACCP Hall
 =ESS.ACC.F02.P01
 +ESS.G04.100.7002
 HCB-ACH:ODH



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.

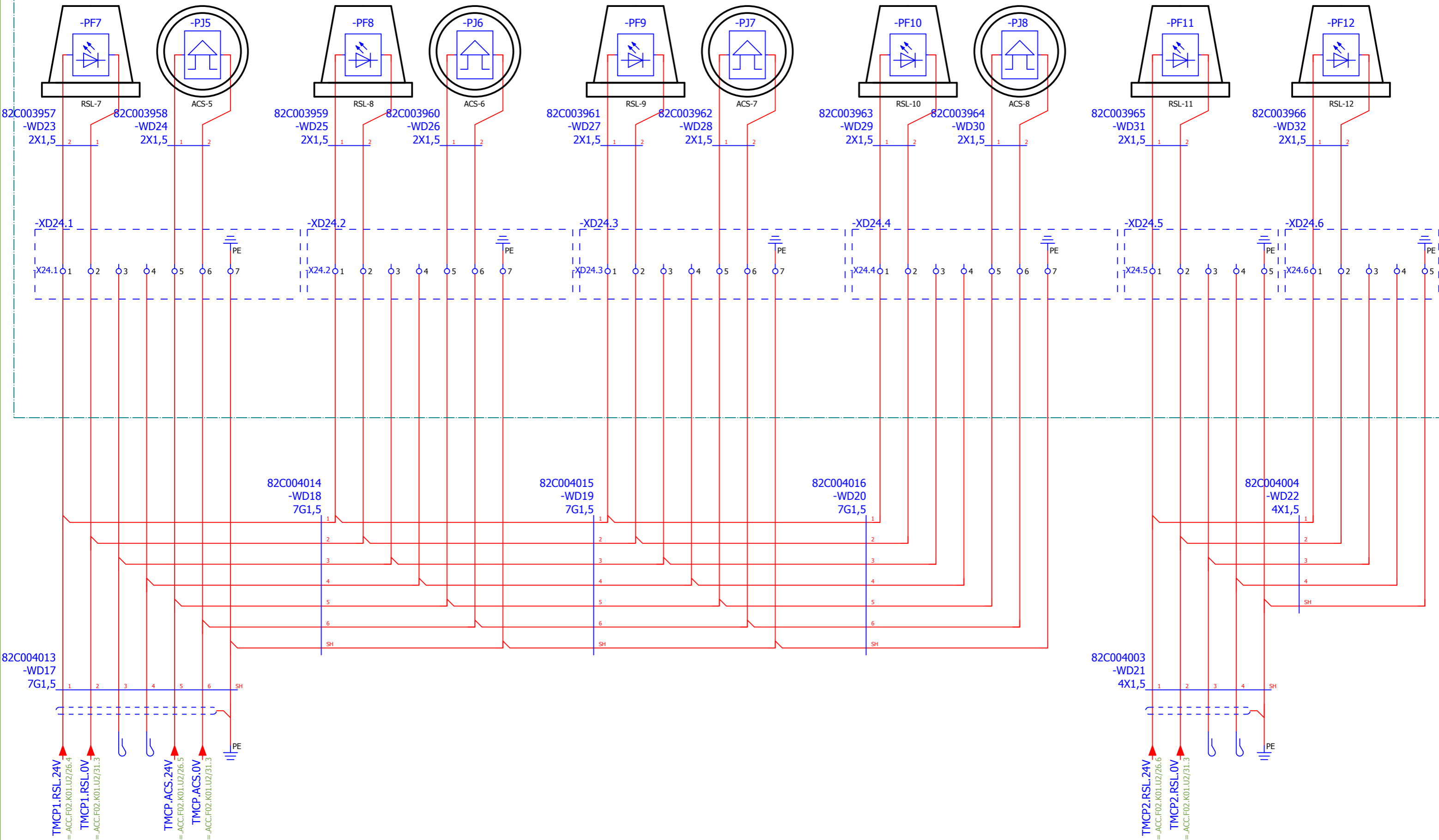


DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Schematic multi-line		
FUNCTION			

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.P01&FS/1		
NEXT	2		

TMCP Hall
 =ESS.ACC.F02.P01
 +ESS.G04.100.7001
 HCB-TCH:ODH



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Schematic multi-line		
FUNCTION			

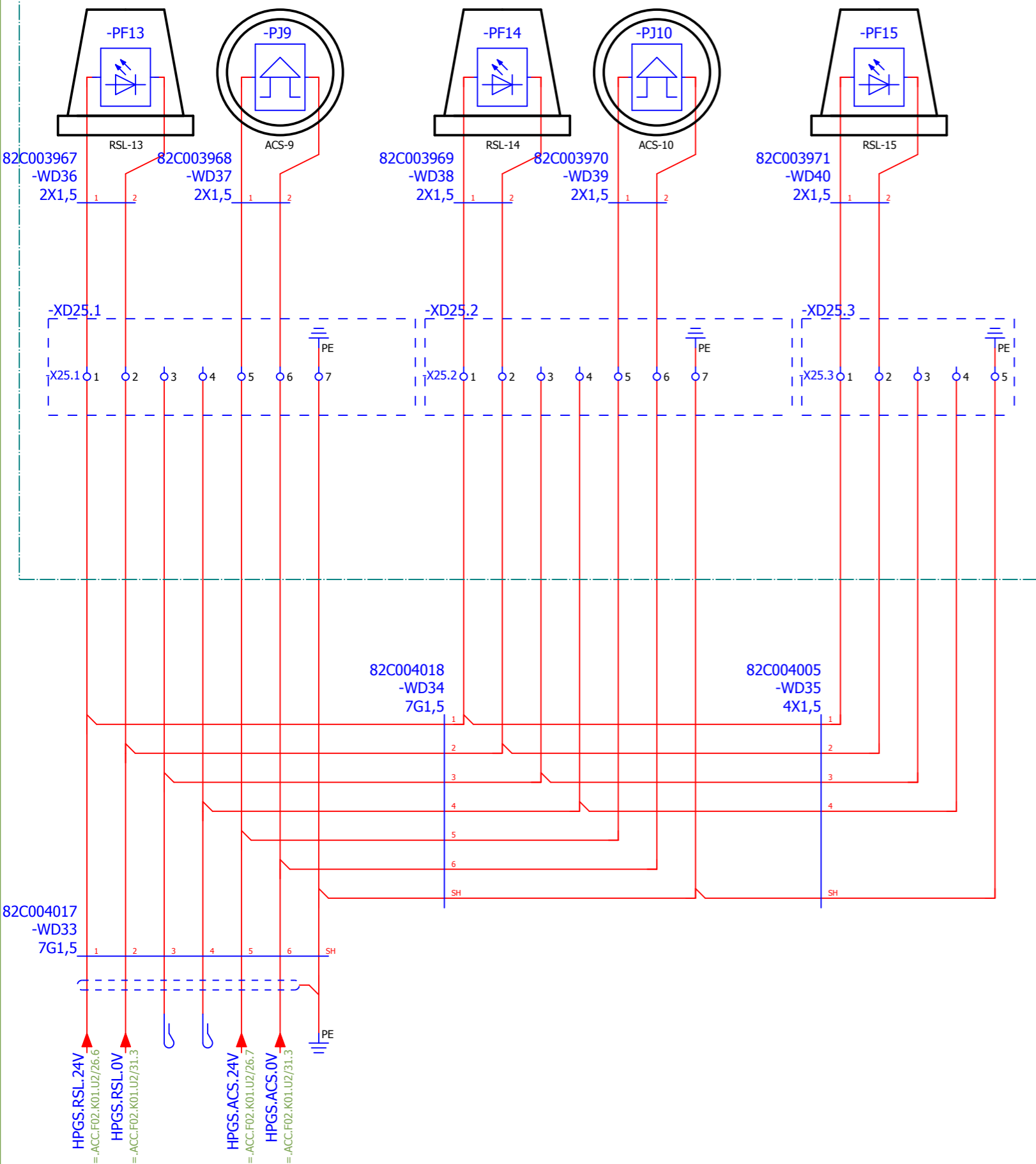
DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.P01&FS/2		
NEXT	3		

HPGS Room

=ESS.ACC.F02.P01

+ESS.G04.100.7004

HCB-HPGS:ODH



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.

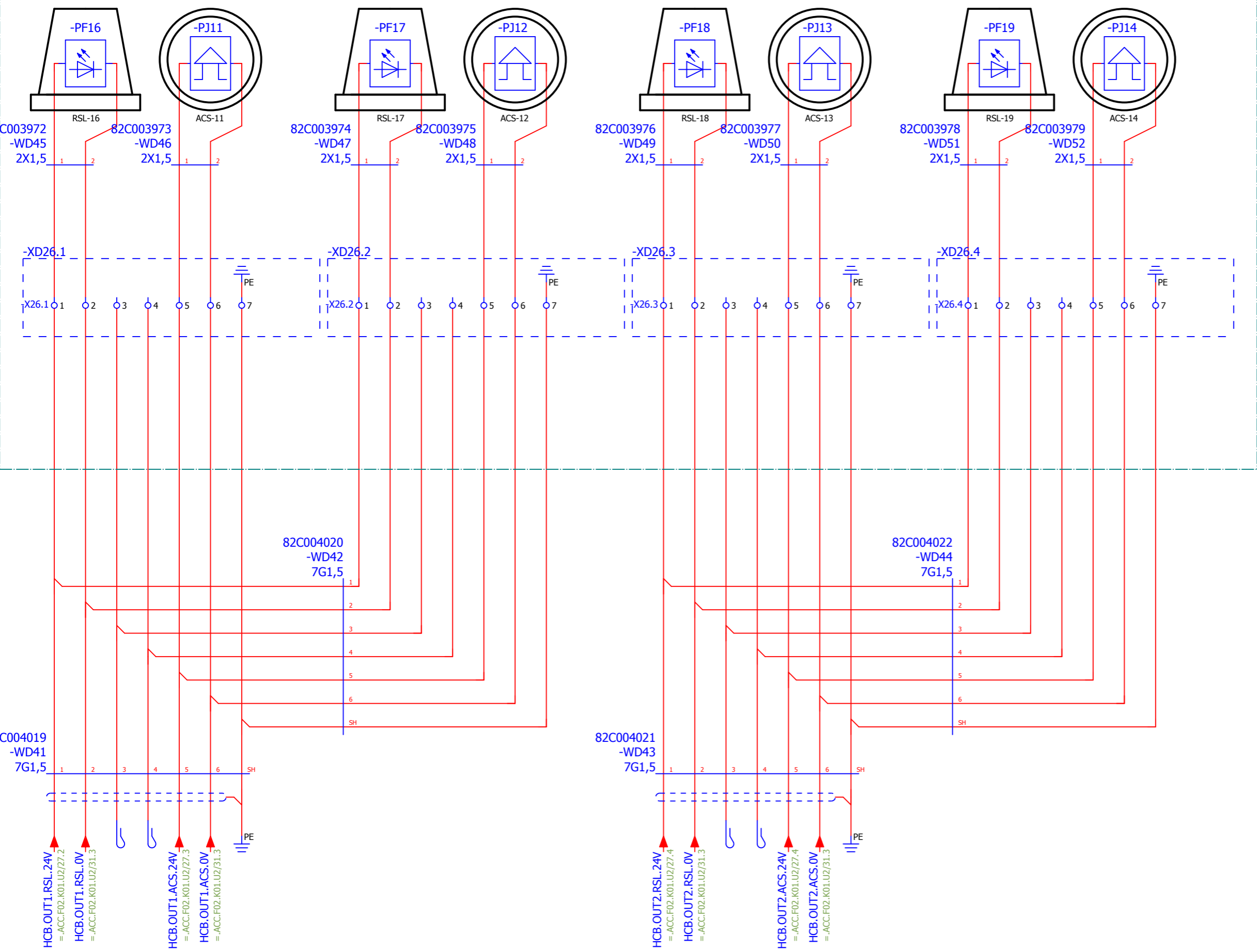


DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Schematic multi-line
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.P01&FS/3		
NEXT	4		

HCB Outside
 =ESS.ACC.F02.P01
 +ESS.G04.100.7002
 HCB-ACH:ODH



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



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Documentation protection ISO 16016

DRAWN BY MM & ATD
CHECKED BY MM
APPROVED BY SLB
DESIGN SITE ESS

DATE 2017-09-01
DATE 01-Sep-17
DATE 01-Sep-17
DATE 01-Sep-17

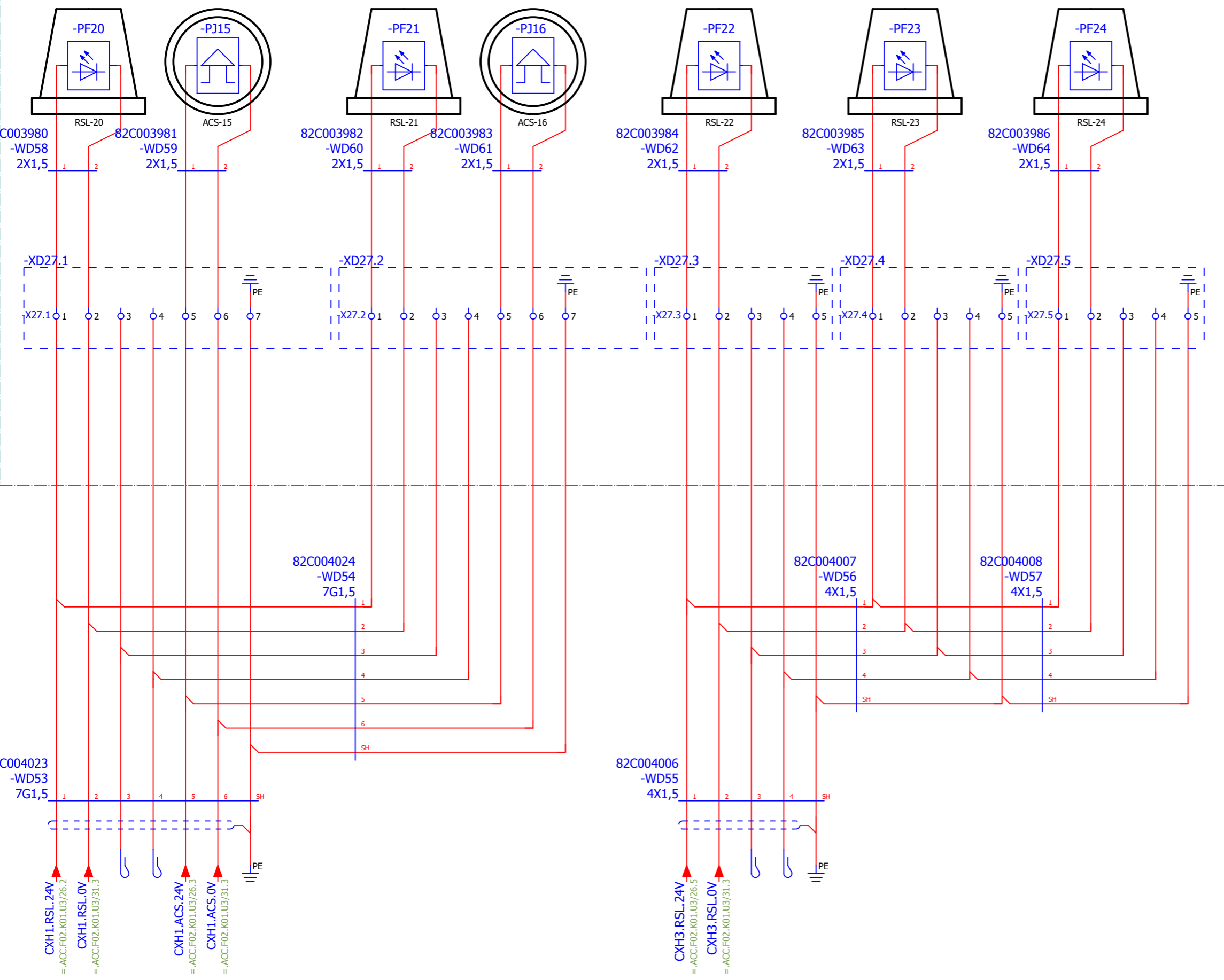
DRAWING TITLE Accelerator ODH Detection System
PAGE TYPE Schematic multi-line
FUNCTION

DRAWING NUMBER (Doc) ESS-0089356
LIFECYCLE LABEL Preliminary
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NEXT 5

PAGE SIZE A3
PAGE SCALE 1
REV 2

CXH (Coldbox Hall)

=ESS.ACC.F02.P01
 +ESS.G02.100.2002
 CXB-CXH:ODH



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



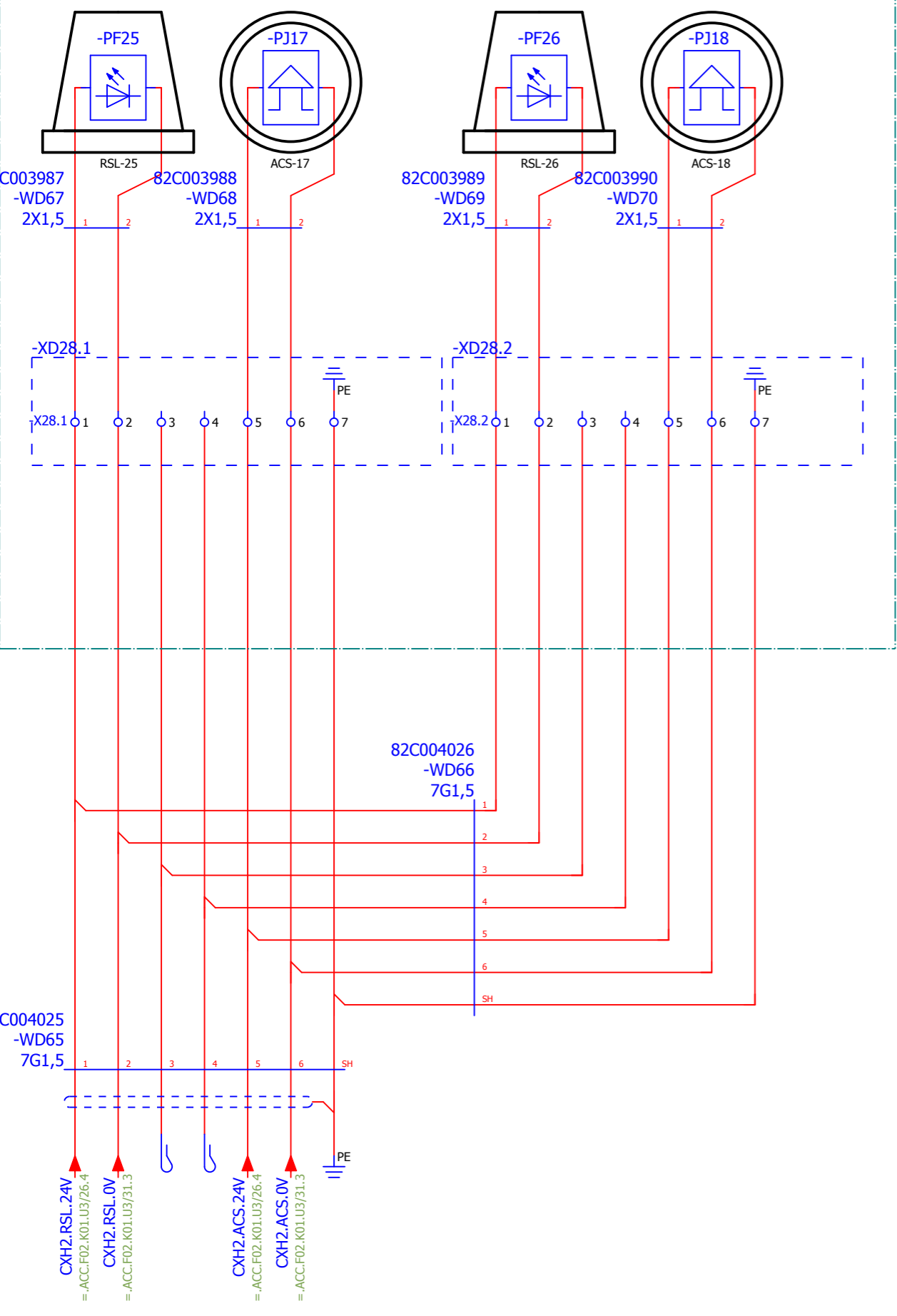
DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Schematic multi-line		
FUNCTION			

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.P01&FS/5		
NEXT	6		

CXH (Coldbox Hall)

=ESS.ACC.F02.P01
 +ESS.G02.100.2002
 CXB-CXH:ODH



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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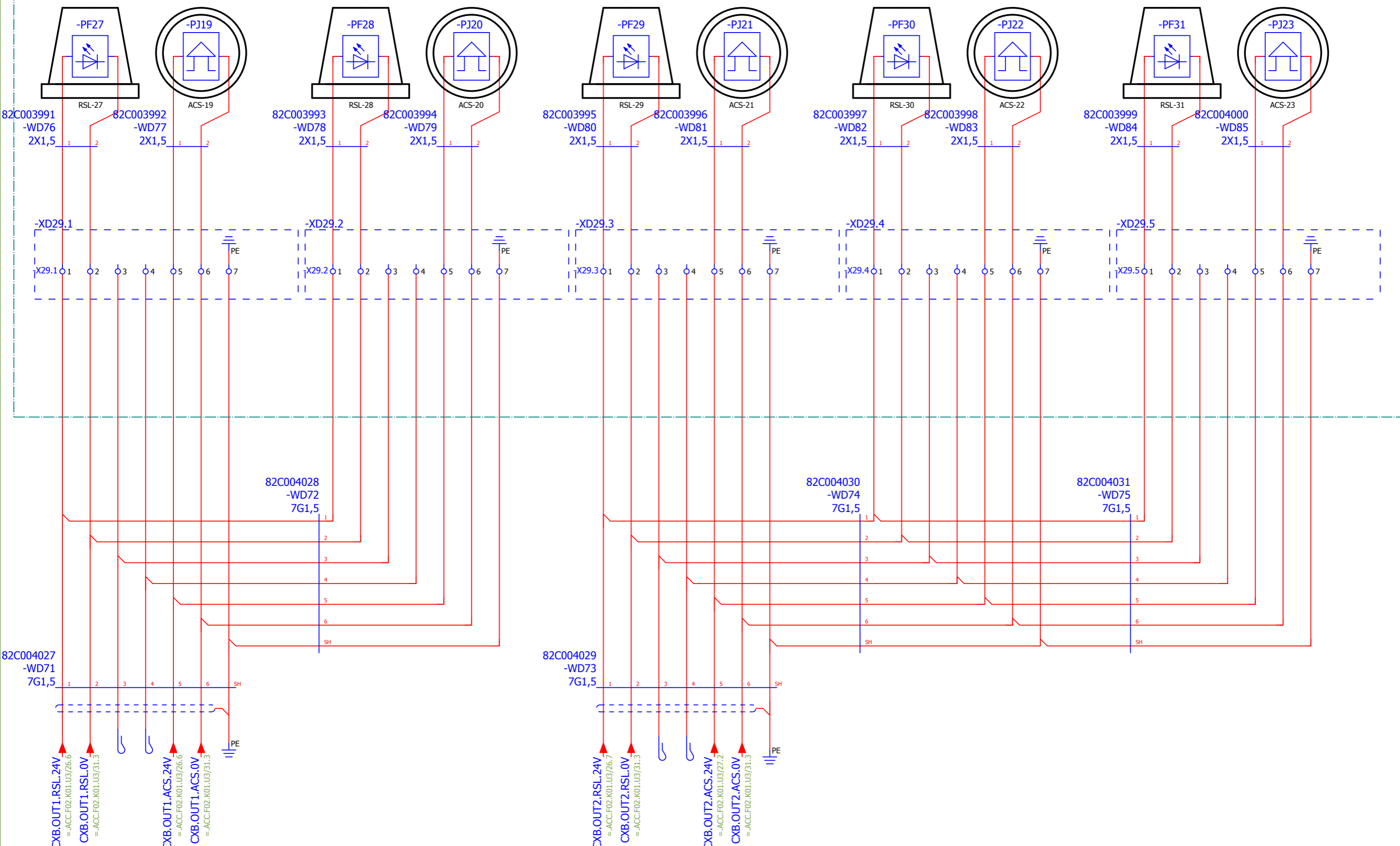


DRAWN BY MM & ATD	DATE 2017-09-01
CHECKED BY MM	DATE
APPROVED BY SLB	DATE 01-Sep-17
DESIGN SITE ESS	

DRAWING TITLE Accelerator ODH Detection System
PAGE TYPE Schematic multi-line
FUNCTION

DRAWING NUMBER (Doc) ESS-0089356			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
SHEET =ESS.ACC.F02.P01&FS/6			
NEXT 7			

CXB Outside
 =ESS.ACC.F02.P01
 +ESS.G02.100.2002
 CXB-CXH:ODH



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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DRAWN BY	DATE	DRAWING TITLE	DRAWING NUMBER (Doc)
MM & ATD	2017-09-01	Accelerator ODH Detection System	ESS-0089356
CHECKED BY	DATE	PAGE TYPE	LIFECYCLE LABEL
MM		Schematic multi-line	Preliminary
APPROVED BY	DATE	FUNCTION	PAGE SIZE
SLB	01-Sep-17		A3
DESIGN SITE	DATE	FUNCTION	PAGE SCALE
ESS			1
			REV
			2

SHEET	DESCRIPTION
=ESS.ACC.F02.P01&FS/7	
&MB/1	

Cable diagram

F09_003

No. of conductors
7G

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD1

Function text	X-Ref	Target designation from			Target designation to	X-Ref	Function text
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=.ACC.F02.K01.U2+&FS/31.2		=.ACC.F02.K01.U2-X103	2		-X23.1:2	+&FS/1.0	
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			GNYE				
			SH				
+&FS/1.1		PE	SH		-X23.1:7	+&FS/1.1	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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DRAWN BY MM & ATD	DATE 2017-09-01
CHECKED BY MM	DATE
APPROVED BY SLB	DATE 01-Sep-17
DESIGN SITE ESS	

DRAWING TITLE Accelerator ODH Detection System
PAGE TYPE Cable diagram
FUNCTION

DRAWING NUMBER (Doc) ESS-0089356			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
SHEET =ESS.ACC.F02.P01&MB/1			
NEXT 2			

Cable diagram

F09_003

No. of conductors
7G

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD2

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/1.0

-X23.1:1

1

1

-X23.2:1

+&FS/1.2

+&FS/1.0

-X23.1:2

2

2

-X23.2:2

+&FS/1.2

+&FS/1.0

-X23.1:3

3

3

-X23.2:3

+&FS/1.2

+&FS/1.1

-X23.1:4

4

4

-X23.2:4

+&FS/1.2

+&FS/1.1

-X23.1:5

5

5

-X23.2:5

+&FS/1.3

+&FS/1.1

-X23.1:6

6

6

-X23.2:6

+&FS/1.3

GNYE

GNYE

SH

SH

+&FS/1.1

-X23.1:7

SH

SH

-X23.2:7

+&FS/1.3

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.P01&MB/2		
NEXT	3		

Cable diagram

F09_003

No. of conductors
7G

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

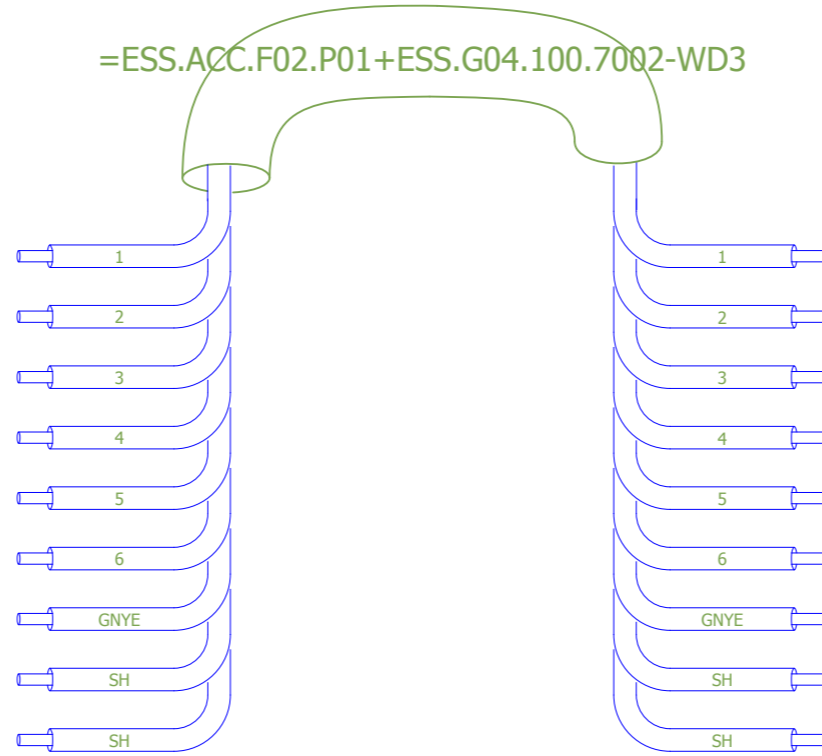
Function text

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD3

Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/1.2

-X23.2:1

1

1

-X23.3:1

+&FS/1.4

+&FS/1.2

-X23.2:2

2

2

-X23.3:2

+&FS/1.4

+&FS/1.2

-X23.2:3

3

3

-X23.3:3

+&FS/1.4

+&FS/1.2

-X23.2:4

4

4

-X23.3:4

+&FS/1.4

+&FS/1.3

-X23.2:5

5

5

-X23.3:5

+&FS/1.4

+&FS/1.3

-X23.2:6

6

6

-X23.3:6

+&FS/1.5

GNYE

GNYE

SH

SH

+&FS/1.3

-X23.2:7

SH

SH

-X23.3:7

+&FS/1.5

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.P01&MB/3		
NEXT	4		

Cable diagram

F09_003

No. of conductors
7G

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD4

Function text

X-Ref

Target designation from

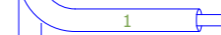
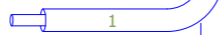
Target designation to

X-Ref

Function text

+&FS/1.4

-X23.3:1

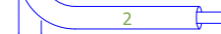
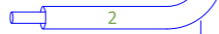


-X23.4:1

+&FS/1.6

+&FS/1.4

-X23.3:2

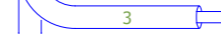
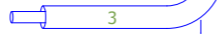


-X23.4:2

+&FS/1.6

+&FS/1.4

-X23.3:3



-X23.4:3

+&FS/1.6

+&FS/1.4

-X23.3:4

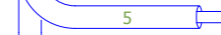
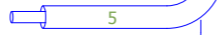


-X23.4:4

+&FS/1.6

+&FS/1.4

-X23.3:5



-X23.4:5

+&FS/1.6

+&FS/1.5

-X23.3:6



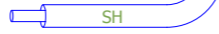
-X23.4:6

+&FS/1.6



+&FS/1.5

-X23.3:7



-X23.4:7

+&FS/1.7

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/4							
NEXT 5							

Cable diagram

F09_003

No. of conductors
4X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD5

Function text	X-Ref	Target designation from			Target designation to	X-Ref	Function text
			1		1	-X23.5:1	+&FS/1.7
=.ACC.F02.K01.U2+&FS/26.4		=.ACC.F02.K01.U2-X11:6	2		2	-X23.5:2	+&FS/1.8
			3		3	-X23.5:3	+&FS/1.8
=.ACC.F02.K01.U2+&FS/31.2		=.ACC.F02.K01.U2-X103	4		4	-X23.5:4	+&FS/1.8
+&FS/1.8			SH		SH		
+&FS/1.8			SH	PE	SH	-X23.5:5	+&FS/1.8

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/5							
NEXT 6							

Cable diagram

F09_003

No. of conductors
4X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

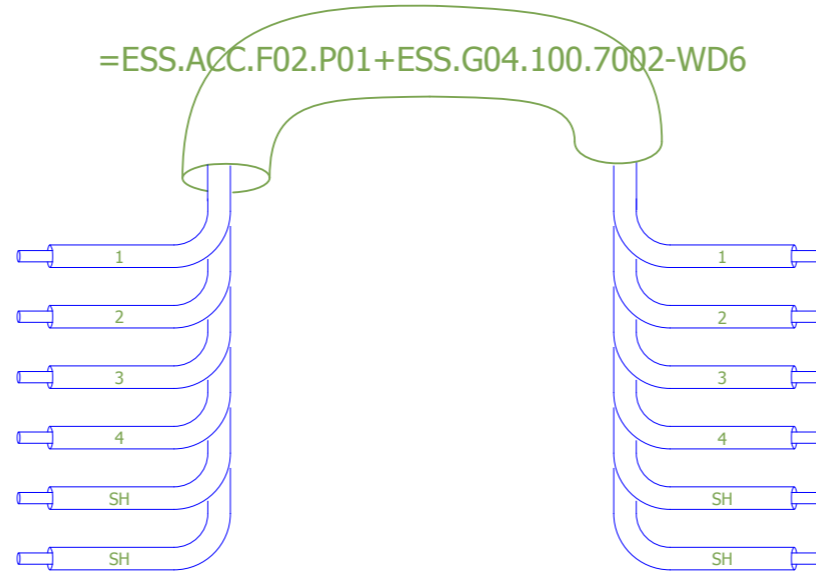
Function text

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD6

Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/1.7

-X23.5:1

1

1

-X23.6:1

+&FS/1.8

+&FS/1.8

-X23.5:2

2

2

-X23.6:2

+&FS/1.9

+&FS/1.8

-X23.5:3

3

3

-X23.6:3

+&FS/1.9

+&FS/1.8

-X23.5:4

4

4

-X23.6:4

+&FS/1.9

+&FS/1.8

-X23.5:5

SH

SH

-X23.6:5

+&FS/1.9

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



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2017-09-01

DATE
01-Sep-17

DESIGN SITE
ESS

DRAWING TITLE
Accelerator ODH Detection System

PAGE TYPE
Cable diagram

FUNCTION

DRAWING NUMBER (Doc) ESS-0089356			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
SHEET =ESS.ACC.F02.P01&MB/6			
NEXT 7			

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD7



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWING NUMBER (Doc)	
				ESS-0089356	
				LIFECYCLE LABEL	PAGE SIZE PAGE SCALE REV
				Preliminary	A3 1 2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	SHEET =ESS.ACC.F02.P01&MB/7	
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	NEXT 8	



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MM

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SLB

DATE
2017-09-01

DATE
01-Sep-17

DESIGN SITE
ESS

ePLAN
electric8 v2.5.4

DRAWING TITLE
Accelerator ODH Detection System

PAGE TYPE
Cable diagram

FUNCTION

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

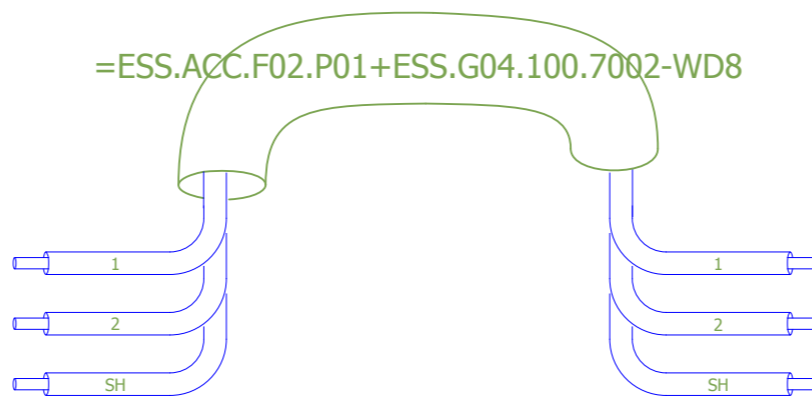
Function text

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD8

Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/1.1

-X23.1:5

-PJ1:X1

+&FS/1.1

+&FS/1.1

-X23.1:6

-PJ1:X2

+&FS/1.1

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2	Preliminary	A3	1	2
SHEET =ESS.ACC.F02.P01&MB/8				NEXT 9			

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD9

Function text

X-Ref

Target designation from

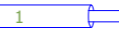
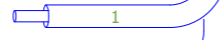
Target designation to

X-Ref

Function text

+&FS/1.2

-X23.2:1



-PF2:X1

+&FS/1.2

+&FS/1.2

-X23.2:2

-PF2:X2

+&FS/1.2

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2	Preliminary	A3	1	2
SHEET =ESS.ACC.F02.P01&MB/9				NEXT 10			

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD10

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/1.3

-X23.2:5

1

1

-PJ2:X1

+&FS/1.3

+&FS/1.3

-X23.2:6

2

2

-PJ2:X2

+&FS/1.3

SH

SH

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2	Preliminary	A3	1	2
SHEET =ESS.ACC.F02.P01&MB/10				NEXT 11			

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

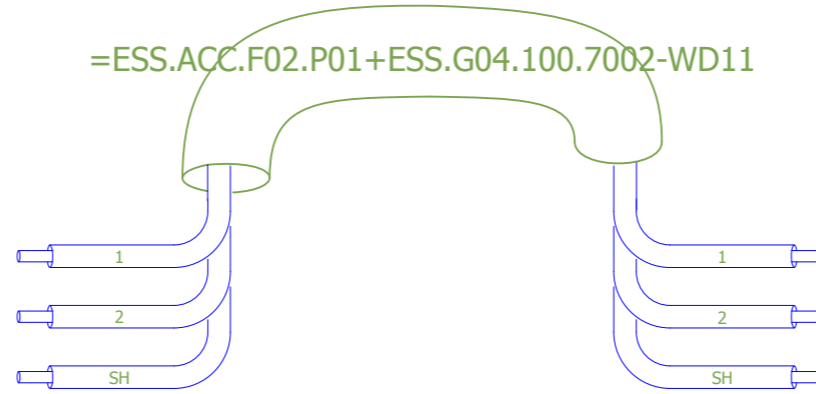
Function text

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Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/1.4

-X23.3:1

1

1

-PF3:X1

+&FS/1.4

+&FS/1.4

-X23.3:2

2

2

-PF3:X2

+&FS/1.4

SH

SH

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/11							
NEXT 12							

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

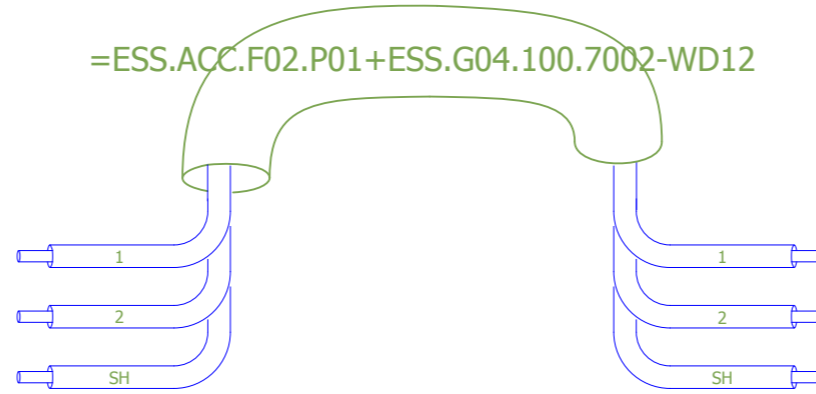
Function text

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD12

Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/1.4

-X23.3:5

-PJ3:X1

+&FS/1.5

+&FS/1.5

-X23.3:6

-PJ3:X2

+&FS/1.5

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/12							
NEXT 13							

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

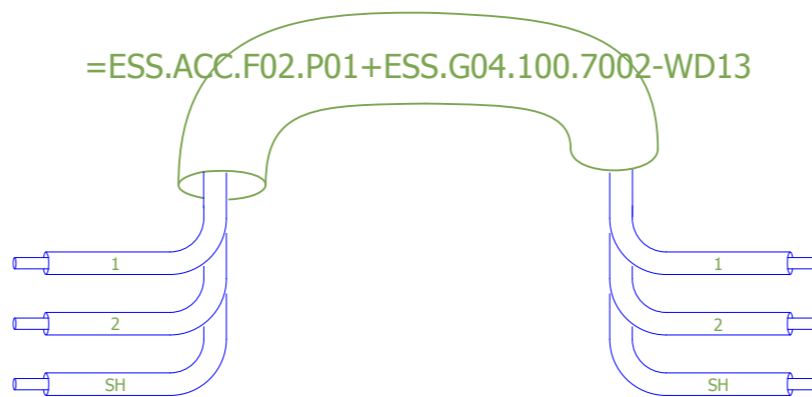
Function text

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD13

Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/1.6

-X23.4:1

1

1

-PF4:X1

+&FS/1.6

+&FS/1.6

-X23.4:2

2

2

-PF4:X2

+&FS/1.6

SH

SH

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



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DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2	Preliminary	A3	1	2
SHEET =ESS.ACC.F02.P01&MB/13				NEXT 14			

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD14



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD		2017-09-01	Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY			PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				MM			Cable diagram	Preliminary	A3	1	2
				APPROVED BY			FUNCTION	SHEET =ESS.ACC.F02.P01&MB/14			
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	SLB		01-Sep-17		NEXT 15			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	ePLAN® electric 8 v2.5.4		ESS					



Documentation protection
ISO 16016

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD15



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.P01&MB/15		
NEXT	16		

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

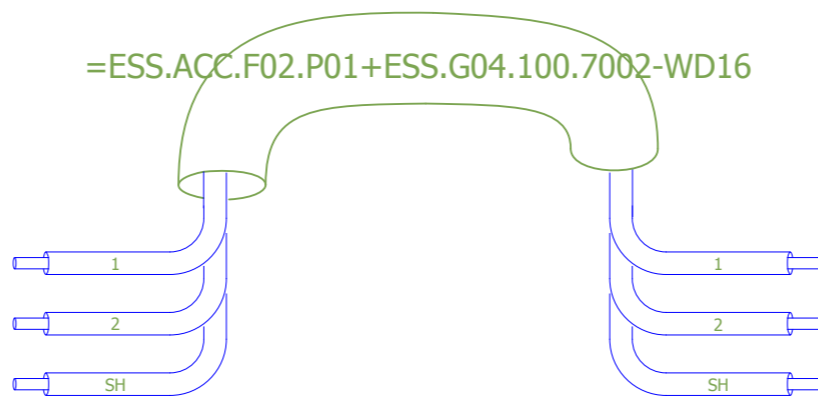
Function text

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD16

Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/1.8

-X23.6:1

-PF6:X1

+&FS/1.9

+&FS/1.9

-X23.6:2

-PF6:X2

+&FS/1.9

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2	Preliminary	A3	1	2
SHEET =ESS.ACC.F02.P01&MB/16				NEXT 17			

Cable diagram

F09_003

No. of conductors
7G

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD41

Function text	X-Ref	Target designation from			Target designation to	X-Ref	Function text
			1		1	-X26.1:1	+&FS/4.0
=.ACC.F02.K01.U2+&FS/27.2		=.ACC.F02.K01.U2-X11:18	2		2	-X26.1:2	+&FS/4.0
=.ACC.F02.K01.U2+&FS/31.2		=.ACC.F02.K01.U2-X103	3		3	-X26.1:3	+&FS/4.0
+&FS/4.0			4		4	-X26.1:4	+&FS/4.1
+&FS/4.1			5		5	-X26.1:5	+&FS/4.1
=.ACC.F02.K01.U2+&FS/27.3		=.ACC.F02.K01.U2-X11:20	6		6	-X26.1:6	+&FS/4.1
=.ACC.F02.K01.U2+&FS/31.2		=.ACC.F02.K01.U2-X103	GNYE		GNYE		
+&FS/4.1		PE	SH		SH	-X26.1:7	+&FS/4.1

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.P01&MB/17		
NEXT	18		

Cable diagram

F09_003

No. of conductors
7G

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD42

Function text	X-Ref	Target designation from			Target designation to	X-Ref	Function text
	+&FS/4.0	-X26.1:1	1	1	-X26.2:1	+&FS/4.2	
	+&FS/4.0	-X26.1:2	2	2	-X26.2:2	+&FS/4.2	
	+&FS/4.0	-X26.1:3	3	3	-X26.2:3	+&FS/4.2	
	+&FS/4.1	-X26.1:4	4	4	-X26.2:4	+&FS/4.2	
	+&FS/4.1	-X26.1:5	5	5	-X26.2:5	+&FS/4.3	
	+&FS/4.1	-X26.1:6	6	6	-X26.2:6	+&FS/4.3	
			GNYE	GNYE			
	+&FS/4.1	-X26.1:7	SH	SH	-X26.2:7	+&FS/4.3	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/18							
NEXT 19							

Cable diagram

F09_003

No. of conductors
7G

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD43

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

=.ACC.F02.K01.U2+&FS/27.4

=.ACC.F02.K01.U2-X11:22

1

1

-X26.3:1

+&FS/4.4

=.ACC.F02.K01.U2+&FS/31.2

=.ACC.F02.K01.U2-X103

2

2

-X26.3:2

+&FS/4.4

+&FS/4.4

3

3

-X26.3:3

+&FS/4.4

+&FS/4.4

4

4

-X26.3:4

+&FS/4.4

=.ACC.F02.K01.U2+&FS/27.4

=.ACC.F02.K01.U2-X11:24

5

5

-X26.3:5

+&FS/4.4

=.ACC.F02.K01.U2+&FS/31.2

=.ACC.F02.K01.U2-X103

6

6

-X26.3:6

+&FS/4.5

+&FS/4.5

PE

SH

SH

-X26.3:7

+&FS/4.5

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



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CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/19							
NEXT 20							

Cable diagram

F09_003

No. of conductors
7G

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD44

Function text	X-Ref	Target designation from			Target designation to	X-Ref	Function text
	+&FS/4.4	-X26.3:1			1	-X26.4:1	+&FS/4.6
	+&FS/4.4	-X26.3:2			2	-X26.4:2	+&FS/4.6
	+&FS/4.4	-X26.3:3			3	-X26.4:3	+&FS/4.6
	+&FS/4.4	-X26.3:4			4	-X26.4:4	+&FS/4.6
	+&FS/4.4	-X26.3:5			5	-X26.4:5	+&FS/4.6
	+&FS/4.5	-X26.3:6			6	-X26.4:6	+&FS/4.6
					GNYE		
			SH				
	+&FS/4.5	-X26.3:7	SH	-X26.4:7	+&FS/4.7		

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



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CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/20							
NEXT 21							

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD45

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/4.0

-X26.1:1

1

1

-PF16:X1

+&FS/4.0

+&FS/4.0

-X26.1:2

2

2

-PF16:X2

+&FS/4.0

SH

SH

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/21							
NEXT 22							

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD46



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY MM & ATD	DATE 2017-09-01
CHECKED BY MM	DATE
APPROVED BY SLB	DATE 01-Sep-17
DESIGN SITE ESS	

DRAWING TITLE Accelerator ODH Detection System
PAGE TYPE Cable diagram
FUNCTION

DRAWING NUMBER (Doc) ESS-0089356			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
SHEET =ESS.ACC.F02.P01&MB/22			
NEXT 23			

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

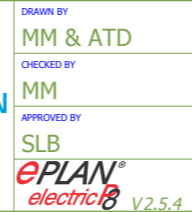
Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD47



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD		2017-09-01	Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY			PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				MM			Cable diagram	Preliminary	A3	1	2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY		01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.P01&MB/23			
				SLB				NEXT 24			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE		ESS					



Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD48

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/4.3

-X26.2:5

1

1

-PJ12:X1

+&FS/4.3

+&FS/4.3

-X26.2:6

2

2

-PJ12:X2

+&FS/4.3

SH

SH

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/24							
NEXT 25							

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD49

Function text

X-Ref

Target designation from

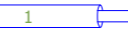
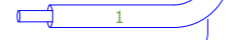
Target designation to

X-Ref

Function text

+&FS/4.4

-X26.3:1



-PF18:X1

+&FS/4.4

+&FS/4.4

-X26.3:2

-PF18:X2

+&FS/4.4



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/25							
NEXT 26							

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD50

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/4.4

-X26.3:5

1

-PJ13:X1

+&FS/4.5

+&FS/4.5

-X26.3:6

2

-PJ13:X2

+&FS/4.5

SH

SH

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/26							
NEXT 27							

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD51

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/4.6

-X26.4:1

1

1

-PF19:X1

+&FS/4.6

+&FS/4.6

-X26.4:2

2

2

-PF19:X2

+&FS/4.6

SH

SH

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2	Preliminary	A3	1	2
SHEET =ESS.ACC.F02.P01&MB/27				NEXT 28			

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7002-WD52



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY MM & ATD	DATE 2017-09-01
CHECKED BY MM	DATE
APPROVED BY SLB	DATE 01-Sep-17
DESIGN SITE ESS	

DRAWING TITLE Accelerator ODH Detection System
PAGE TYPE Cable diagram
FUNCTION

DRAWING NUMBER (Doc) ESS-0089356			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
SHEET =ESS.ACC.F02.P01&MB/28			
NEXT 29			

Cable diagram

F09_003

No. of conductors
7G

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7001-WD17

Function text	X-Ref	Target designation from			Target designation to	X-Ref	Function text
		=.ACC.F02.K01.U2+&FS/2.0	1		-X24.1:1	+&FS/2.0	
		=.ACC.F02.K01.U2+&FS/3.0	2		2	+&FS/2.0	
	+&FS/2.0		3		=.ACC.F02.B01.BQ2+.G04.100.7002+&FS/2.0	+&FS/2.0	
	+&FS/2.1		4		=.ACC.F02.B01.BQ2+.G04.100.7002+&FS/2.1	+&FS/2.1	
		=.ACC.F02.K01.U2+&FS/2.5	5		=.ACC.F02.B01.BQ2+.G04.100.7002+&FS/2.5	+&FS/2.5	
		=.ACC.F02.K01.U2+&FS/3.0	6		=.ACC.F02.B01.BQ2+.G04.100.7002+&FS/2.5	+&FS/2.5	
			GNYE				
			SH				
	+&FS/2.1	PE	SH		=.ACC.F02.B01.BQ2+.G04.100.7002+&FS/2.17	+&FS/2.17	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/29							
NEXT 30							

Cable diagram

F09_003

No. of conductors
7G

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

=ESS.ACC.F02.P01+ESS.G04.100.7001-WD18

Function text	X-Ref	Target designation from			Target designation to	X-Ref	Function text
	+&FS/2.0	-X24.1:1	1	1	-X24.2:1	+&FS/2.2	
	+&FS/2.0	2	2	2	-X24.2:2	+&FS/2.2	
	+&FS/2.0	-X24.1:3	3	3	-X24.2:3	+&FS/2.2	
	+&FS/2.0	-X24.1:4	4	4	-X24.2:4	+&FS/2.2	
	+&FS/2.0	-X24.1:5	5	5	-X24.2:5	+&FS/2.3	
	+&FS/2.0	-X24.1:6	6	6	-X24.2:6	+&FS/2.3	
		GNYE	GNYE	GNYE			
		SH	SH	SH			
	+&FS/2.0	-X24.1:7	SH	SH	-X24.2:7	+&FS/2.3	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
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DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.P01&MB/30		
NEXT	31		

Cable diagram

F09_003

No. of conductors
7G

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7001-WD19

Function text

X-Ref

Target designation from

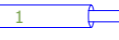
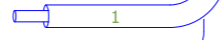
Target designation to

X-Ref

Function text

+&FS/2.4

-XD24.3-X24.3:1

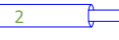
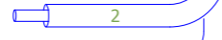


-X24.2:1

+&FS/2.2

+&FS/2.4

-XD24.3-X24.3:2

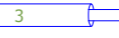
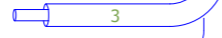


-X24.2:2

+&FS/2.2

+&FS/2.4

-XD24.3-X24.3:3

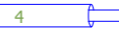
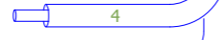


-X24.2:3

+&FS/2.2

+&FS/2.4

-XD24.3-X24.3:4

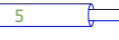
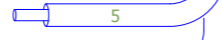


-X24.2:4

+&FS/2.2

+&FS/2.4

-XD24.3-X24.3:5



-X24.2:5

+&FS/2.3

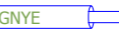
+&FS/2.5

-XD24.3-X24.3:6



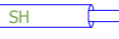
-X24.2:6

+&FS/2.3



+&FS/2.5

-XD24.3-X24.3:7



-X24.2:7

+&FS/2.3

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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DRAWING TITLE
Accelerator ODH Detection System

PAGE TYPE
Cable diagram

FUNCTION

DRAWING NUMBER (Doc) ESS-0089356			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
SHEET =ESS.ACC.F02.P01&MB/31			
NEXT 32			

Cable diagram

F09_003

No. of conductors
7G

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7001-WD20

Function text

X-Ref

Target designation from

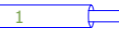
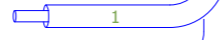
Target designation to

X-Ref

Function text

+&FS/2.4

-XD24.3-X24.3:1

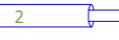
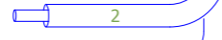


-X24.4:1

+&FS/2.6

+&FS/2.4

-XD24.3-X24.3:2

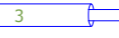
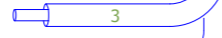


-X24.4:2

+&FS/2.6

+&FS/2.4

-XD24.3-X24.3:3

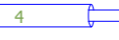


-X24.4:3

+&FS/2.6

+&FS/2.4

-XD24.3-X24.3:4

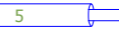
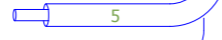


-X24.4:4

+&FS/2.6

+&FS/2.4

-XD24.3-X24.3:5



-X24.4:5

+&FS/2.6

+&FS/2.5

-XD24.3-X24.3:6



-X24.4:6

+&FS/2.6

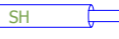


-X24.4:7

+&FS/2.7

+&FS/2.5

-XD24.3-X24.3:7



-X24.4:7

+&FS/2.7

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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DRAWING TITLE
Accelerator ODH Detection System

PAGE TYPE
Cable diagram

FUNCTION

DRAWING NUMBER (Doc) ESS-0089356			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
SHEET =ESS.ACC.F02.P01&MB/32			
NEXT 33			

Cable diagram

F09_003

No. of conductors
4X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

=ESS.ACC.F02.P01+ESS.G04.100.7001-WD21

Function text	X-Ref	Target designation from		Target designation to	X-Ref	Function text
		=.ACC.F02.K01.U2+&FS/2.6	1	-X24.5:1	+&FS/2.7	
		=.ACC.F02.K01.U2+&FS/3.10	2	-X24.5:2	+&FS/2.8	
	+&FS/2.8	=.ACC.F02.K01.U2+&FS/3.10	3	-X24.5:3	+&FS/2.8	
	+&FS/2.8		4	-X24.5:4	+&FS/2.8	
			SH			
	+&FS/2.8	PE	SH	-X24.5:5	+&FS/2.8	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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DESIGN SITE ESS	

DRAWING TITLE Accelerator ODH Detection System
PAGE TYPE Cable diagram
FUNCTION

DRAWING NUMBER (Doc) ESS-0089356			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
SHEET =ESS.ACC.F02.P01&MB/33			
NEXT 34			

Cable diagram

F09_003

No. of conductors
4X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

=ESS.ACC.F02.P01+ESS.G04.100.7001-WD22

Function text

X-Ref

Target designation from

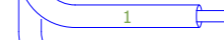
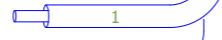
Target designation to

X-Ref

Function text

+&FS/2.7

-X24.5:1

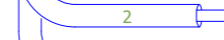
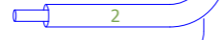


-X24.6:1

+&FS/2.8

+&FS/2.8

-X24.5:2

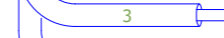
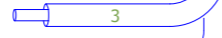


-X24.6:2

+&FS/2.9

+&FS/2.8

-X24.5:3



-X24.6:3

+&FS/2.9

+&FS/2.8

-X24.5:4



-X24.6:4

+&FS/2.9

+&FS/2.8

-X24.5:5



-X24.6:5

+&FS/2.9

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DRAWING TITLE
Accelerator ODH Detection System

PAGE TYPE
Cable diagram

FUNCTION

DRAWING NUMBER (Doc) ESS-0089356			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
SHEET =ESS.ACC.F02.P01&MB/34			
NEXT 35			

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7001-WD23

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/2.0

2

1

-PF7:X2

+&FS/2.0

+&FS/2.0

-X24.1:1

2

-PF7:X1

+&FS/2.0

SH

SH

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/35							
NEXT 36							

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

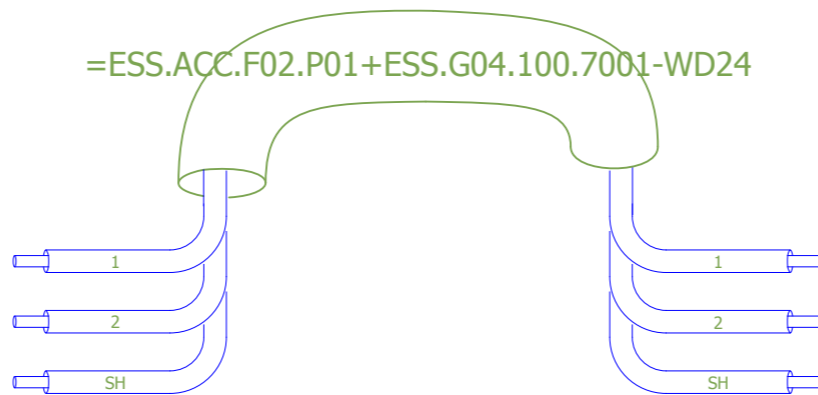
Function text

=ESS.ACC.F02.P01+ESS.G04.100.7001-WD24

Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/2.1

+&FS/2.1

-PJ5:X1

-PJ5:X2

+&FS/2.1

+&FS/2.1

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2	Preliminary	A3	1	2
SHEET =ESS.ACC.F02.P01&MB/36				NEXT 37			

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

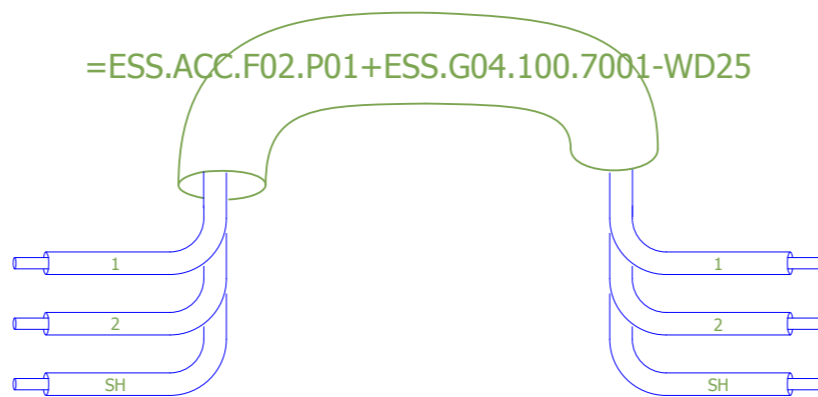
Function text

=ESS.ACC.F02.P01+ESS.G04.100.7001-WD25

Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/2.2

-X24.2:1

-PF8:X1

+&FS/2.2

+&FS/2.2

-X24.2:2

-PF8:X2

+&FS/2.2

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/37							
NEXT 38							

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7001-WD26

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/2.3

-X24.2:5

1

1

-PJ6:X1

+&FS/2.3

+&FS/2.3

-X24.2:6

2

2

-PJ6:X2

+&FS/2.3

SH

SH

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/38							
NEXT 39							

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7001-WD27

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/2.4

-XD24.3-X24.3:1

1

1

-PF9:X1

+&FS/2.4

+&FS/2.4

-XD24.3-X24.3:2

2

2

-PF9:X2

+&FS/2.4

SH

SH

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2	Preliminary	A3	1	2
SHEET =ESS.ACC.F02.P01&MB/39				NEXT 40			

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7001-WD28

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/2.4

-XD24.3-X24.3:5

1

1

-PJ7:X1

+&FS/2.5

+&FS/2.5

-XD24.3-X24.3:6

2

2

-PJ7:X2

+&FS/2.5

SH

SH

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/40							
NEXT 41							

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7001-WD29

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/2.6

-X24.4:1

1

1

-PF10:X1

+&FS/2.6

+&FS/2.6

-X24.4:2

2

2

-PF10:X2

+&FS/2.6

SH

SH

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2	Preliminary	A3	1	2
SHEET =ESS.ACC.F02.P01&MB/41				NEXT 42			

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7001-WD30

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/2.6

-X24.4:5

1

1

-PJ8:X1

+&FS/2.6

+&FS/2.6

-X24.4:6

2

2

-PJ8:X2

+&FS/2.6

SH

SH

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/42							
NEXT 43							

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

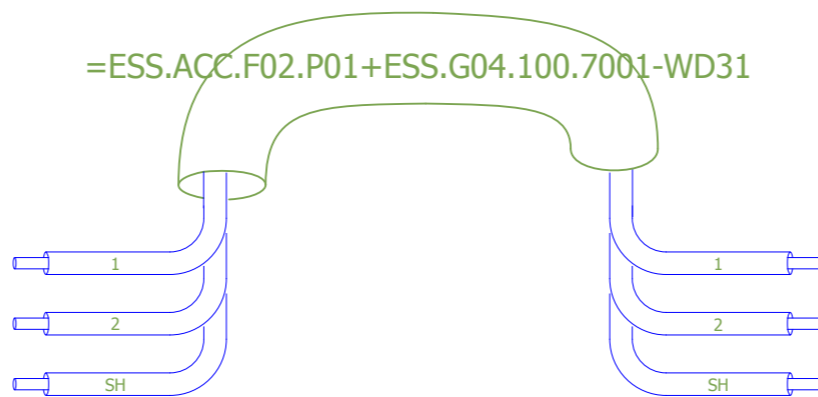
Length

=ESS.ACC.F02.P01+ESS.G04.100.7001-WD31

Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/2.7

-X24.5:1

-PF11:X1

+&FS/2.8

+&FS/2.8

-X24.5:2

-PF11:X2

+&FS/2.8

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.P01&MB/43		
NEXT	44		

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7001-WD32



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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DRAWING TITLE Accelerator ODH Detection System
PAGE TYPE Cable diagram
FUNCTION

DRAWING NUMBER (Doc) ESS-0089356			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
SHEET =ESS.ACC.F02.P01&MB/44			
NEXT 45			

Cable diagram

F09_003

No. of conductors
7G

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

=ESS.ACC.F02.P01+ESS.G04.100.7004-WD33

Function text	X-Ref	Target designation from			Target designation to	X-Ref	Function text
		=.ACC.F02.K01.U2+&FS/3.0	1		-X25.1:1	+&FS/3.0	
		=.ACC.F02.K01.U2+&FS/3.1	2		-X25.1:2	+&FS/3.0	
	+&FS/3.0		3		-X25.1:3	+&FS/3.0	
	+&FS/3.1		4		-X25.1:4	+&FS/3.1	
		=.ACC.F02.K01.U2+&FS/3.1	5		-X25.1:5	+&FS/3.1	
		=.ACC.F02.K01.U2+&FS/3.0	6		-X25.1:6	+&FS/3.1	
			GNYE				
			SH				
	+&FS/3.1	PE	SH		-X25.1:7	+&FS/3.1	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.P01&MB/45		
NEXT	46		

Cable diagram

F09_003

No. of conductors
7G

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

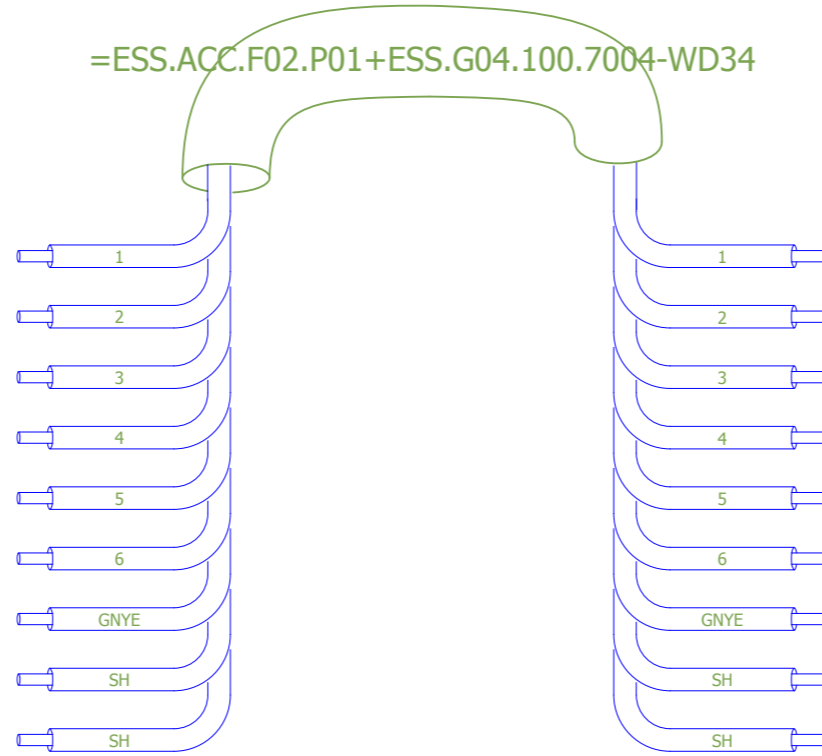
Function text

=ESS.ACC.F02.P01+ESS.G04.100.7004-WD34

Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/3.0

-X25.1:1

1

1

-X25.2:1

+&FS/3.2

+&FS/3.0

-X25.1:2

2

2

-X25.2:2

+&FS/3.2

+&FS/3.0

-X25.1:3

3

3

-X25.2:3

+&FS/3.2

+&FS/3.1

-X25.1:4

4

4

-X25.2:4

+&FS/3.2

+&FS/3.1

-X25.1:5

5

5

-X25.2:5

+&FS/3.3

+&FS/3.1

-X25.1:6

6

6

-X25.2:6

+&FS/3.3

GNYE

GNYE

SH

SH

+&FS/3.1

-X25.1:7

SH

SH

-X25.2:7

+&FS/3.3

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.P01&MB/46		
NEXT	47		

Cable diagram

F09_003

No. of conductors
4X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

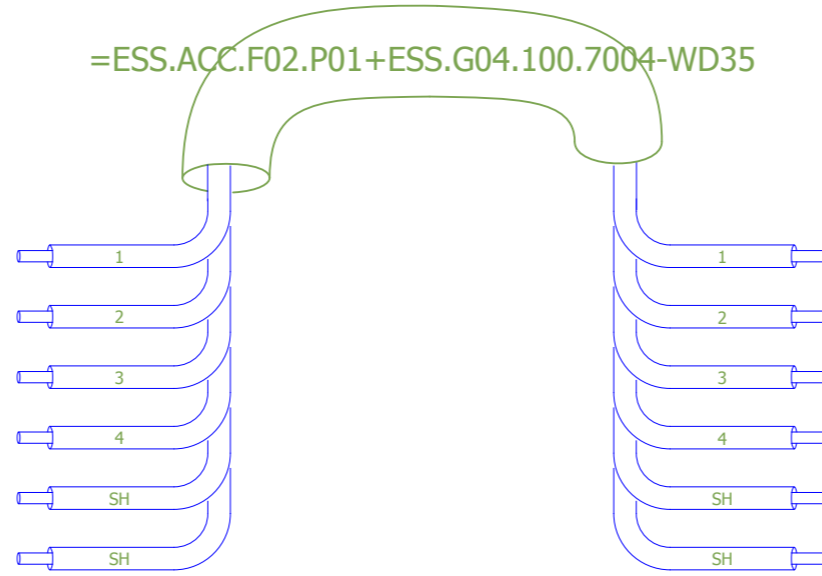
Function text

=ESS.ACC.F02.P01+ESS.G04.100.7004-WD35

Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/3.2

-X25.2:1

1

1

-X25.3:1

+&FS/3.4

+&FS/3.2

-X25.2:2

2

2

-X25.3:2

+&FS/3.4

+&FS/3.2

-X25.2:3

3

3

-X25.3:3

+&FS/3.4

+&FS/3.2

-X25.2:4

4

4

-X25.3:4

+&FS/3.4

SH

SH

+&FS/3.3

-X25.2:7

SH

SH

-X25.3:5

+&FS/3.4

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



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MM

APPROVED BY
SLB

DATE
2017-09-01

DATE
01-Sep-17

DESIGN SITE
ESS

DRAWING TITLE
Accelerator ODH Detection System

PAGE TYPE
Cable diagram

FUNCTION

DRAWING NUMBER (Doc) ESS-0089356			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
SHEET =ESS.ACC.F02.P01&MB/47			
NEXT 48			

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

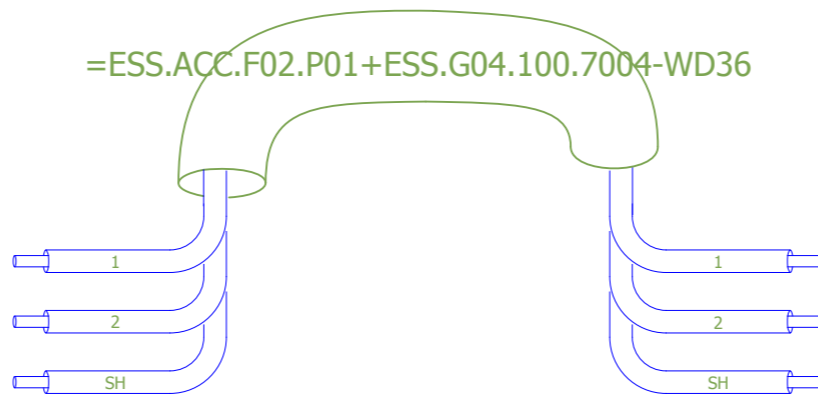
Function text

=ESS.ACC.F02.P01+ESS.G04.100.7004-WD36

Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/3.0

-X25.1:1

-PF13:X1

+&FS/3.0

+&FS/3.0

-X25.1:2

-PF13:X2

+&FS/3.0

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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DRAWN BY	MM & ATD	DATE	2017-09-01
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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2	Preliminary	A3	1	2
SHEET =ESS.ACC.F02.P01&MB/48				NEXT 49			

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7004-WD37

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/3.1

-X25.1:5

1

1

-PJ9:X1

+&FS/3.1

+&FS/3.1

-X25.1:6

2

2

-PJ9:X2

+&FS/3.1

SH

SH

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/49							
NEXT 50							

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7004-WD38

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/3.2

-X25.2:1

1

1

-PF14:X1

+&FS/3.2

+&FS/3.2

-X25.2:2

2

2

-PF14:X2

+&FS/3.2

SH

SH

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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DRAWN BY	MM & ATD	DATE	2017-09-01
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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/50							
NEXT 51							

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7004-WD39

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/3.3

-X25.2:5

1

1

-PJ10:X1

+&FS/3.3

+&FS/3.3

-X25.2:6

2

2

-PJ10:X2

+&FS/3.3

SH

SH

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2	SHEET =ESS.ACC.F02.P01&MB/51			
NEXT				52			

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G04.100.7004-WD40



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/52							
NEXT 53							

Cable diagram

F09_003

No. of conductors
7G

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD53

Function text	X-Ref	Target designation from			Target designation to	X-Ref	Function text
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=.ACC.F02.K01.U3+&FS/31.2		=.ACC.F02.K01.U3-X103	2		-X27.1:2	+&FS/5.0	
+&FS/5.0			3		-X27.1:3	+&FS/5.0	
+&FS/5.1			4		-X27.1:4	+&FS/5.1	
=.ACC.F02.K01.U3+&FS/26.3		=.ACC.F02.K01.U3-X11:4	5		-X27.1:5	+&FS/5.1	
=.ACC.F02.K01.U3+&FS/31.2		=.ACC.F02.K01.U3-X103	6		-X27.1:6	+&FS/5.1	
			GNYE				
			SH				
+&FS/5.1		PE	SH		-X27.1:7	+&FS/5.1	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/53							
NEXT 54							

Cable diagram

F09_003

No. of conductors
7G

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

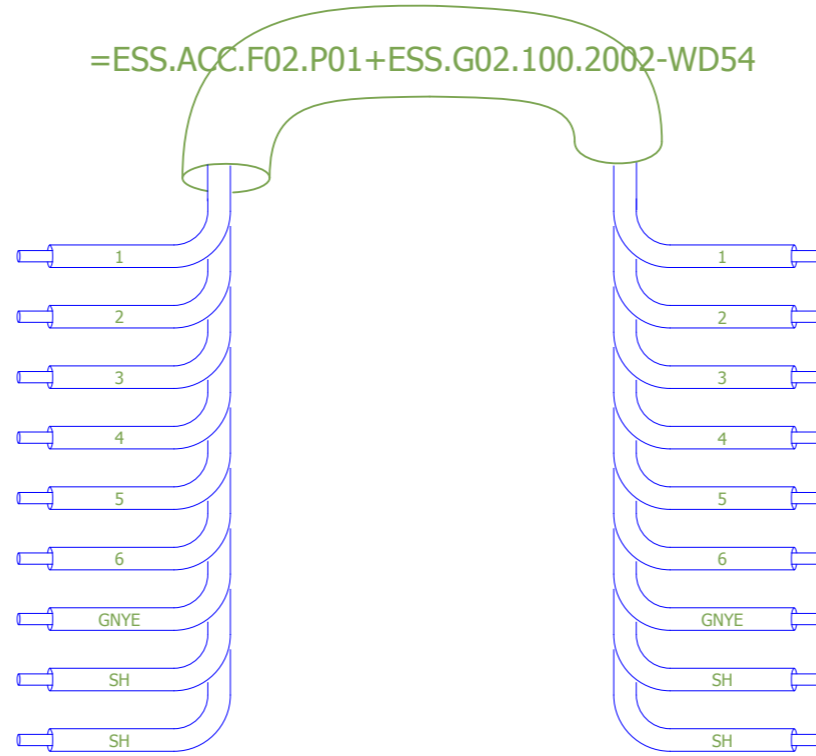
Function text

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Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/5.0

-X27.1:1

1

1

-X27.2:1

+&FS/5.2

+&FS/5.0

-X27.1:2

2

2

-X27.2:2

+&FS/5.2

+&FS/5.0

-X27.1:3

3

3

-X27.2:3

+&FS/5.2

+&FS/5.1

-X27.1:4

4

4

-X27.2:4

+&FS/5.2

+&FS/5.1

-X27.1:5

5

5

-X27.2:5

+&FS/5.3

+&FS/5.1

-X27.1:6

6

6

-X27.2:6

+&FS/5.3

GNYE

GNYE

SH

SH

+&FS/5.1

-X27.1:7

SH

SH

-X27.2:7

+&FS/5.3

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.P01&MB/54		
NEXT	55		

Cable diagram

F09_003

No. of conductors
4X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD55

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

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=.ACC.F02.K01.U3-X11:10

1

1

-X27.3:1

+&FS/5.4

=.ACC.F02.K01.U3+&FS/31.2

=.ACC.F02.K01.U3-X103

2

2

-X27.3:2

+&FS/5.4

+&FS/5.4

3

3

-X27.3:3

+&FS/5.4

+&FS/5.4

4

4

-X27.3:4

+&FS/5.4

+&FS/5.4

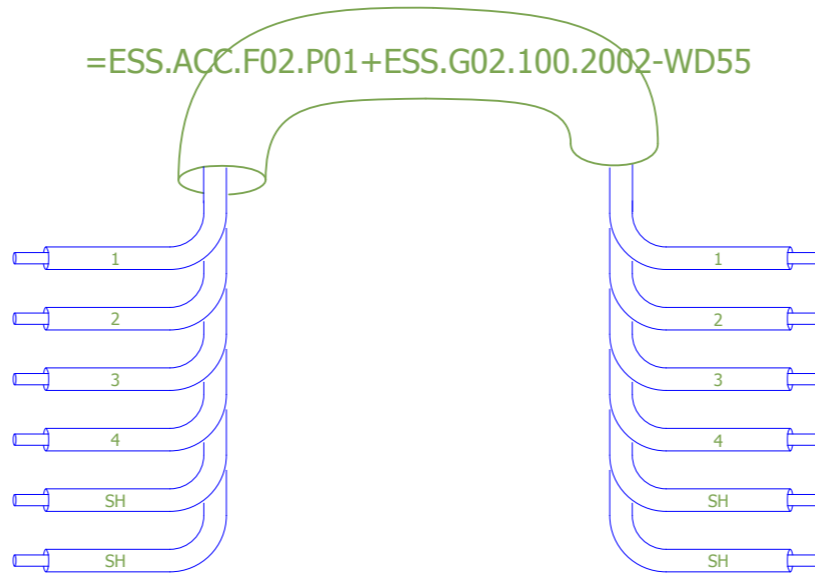
PE

SH

SH

-X27.3:5

+&FS/5.4



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/55							
NEXT 56							

Cable diagram

F09_003

No. of conductors
4X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

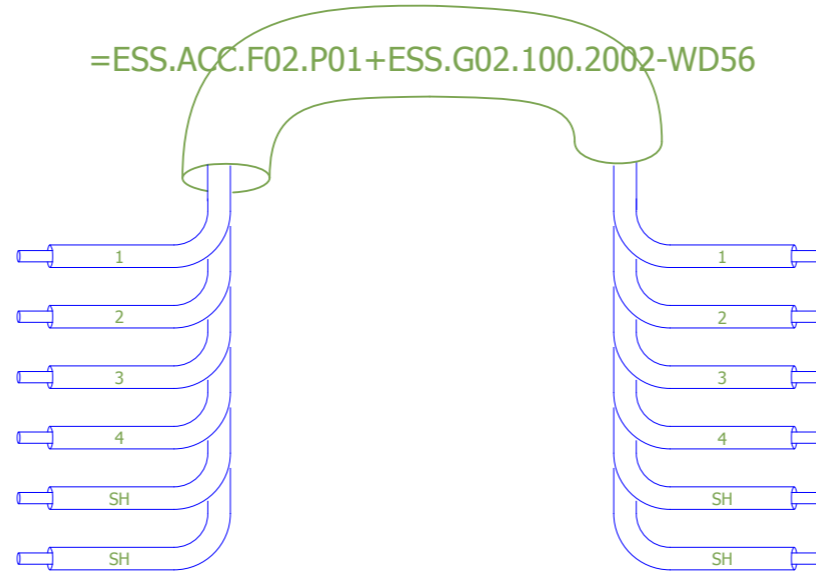
Function text

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Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/5.4

-X27.3:1

1

1

-X27.4:1

+&FS/5.5

+&FS/5.4

-X27.3:2

2

2

-X27.4:2

+&FS/5.5

+&FS/5.4

-X27.3:3

3

3

-X27.4:3

+&FS/5.5

+&FS/5.4

-X27.3:4

4

4

-X27.4:4

+&FS/5.5

+&FS/5.4

-X27.3:5

SH

SH

-X27.4:5

+&FS/5.6

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



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MM & ATD

CHECKED BY
MM

APPROVED BY
SLB

DATE
2017-09-01

DATE
01-Sep-17

DESIGN SITE
ESS

DRAWING TITLE
Accelerator ODH Detection System

PAGE TYPE
Cable diagram

FUNCTION

DRAWING NUMBER (Doc) ESS-0089356			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
SHEET =ESS.ACC.F02.P01&MB/56			
NEXT 57			

Cable diagram

F09_003

No. of conductors
4X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

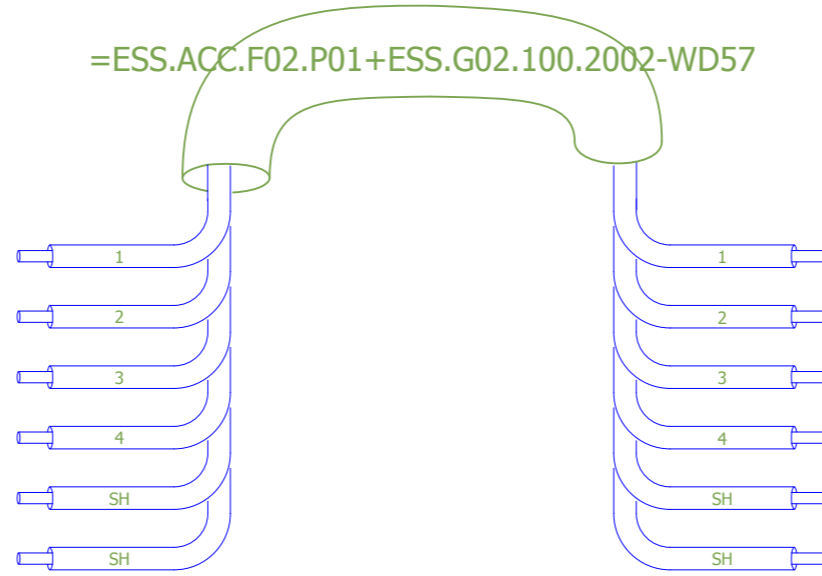
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=ESS.ACC.F02.P01+ESS.G02.100.2002-WD57

Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/5.5

-X27.4:1

1

1

-X27.5:1

+&FS/5.6

+&FS/5.5

-X27.4:2

2

2

-X27.5:2

+&FS/5.6

+&FS/5.5

-X27.4:3

3

3

-X27.5:3

+&FS/5.6

+&FS/5.5

-X27.4:4

4

4

-X27.5:4

+&FS/5.6

SH

SH

+&FS/5.6

-X27.4:5

SH

SH

-X27.5:5

+&FS/5.7

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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DRAWN BY	MM & ATD	DATE	2017-09-01
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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/57							
NEXT 58							

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

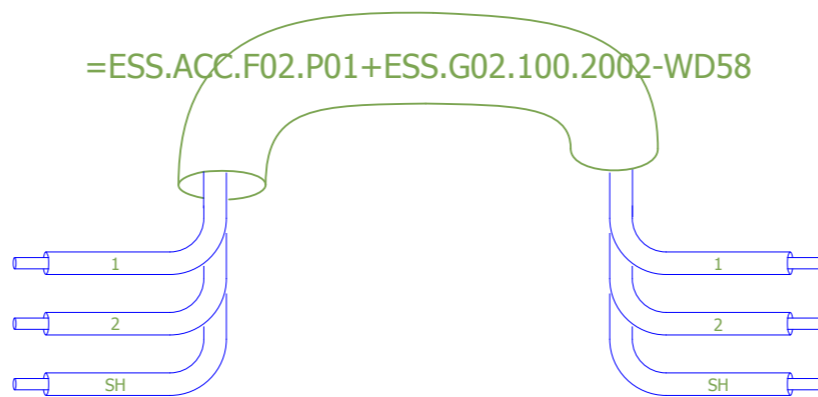
Function text

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD58

Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/5.0

-X27.1:1

-PF20:X1

+&FS/5.0

+&FS/5.0

-X27.1:2

-PF20:X2

+&FS/5.0

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.P01&MB/58		
NEXT	59		

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

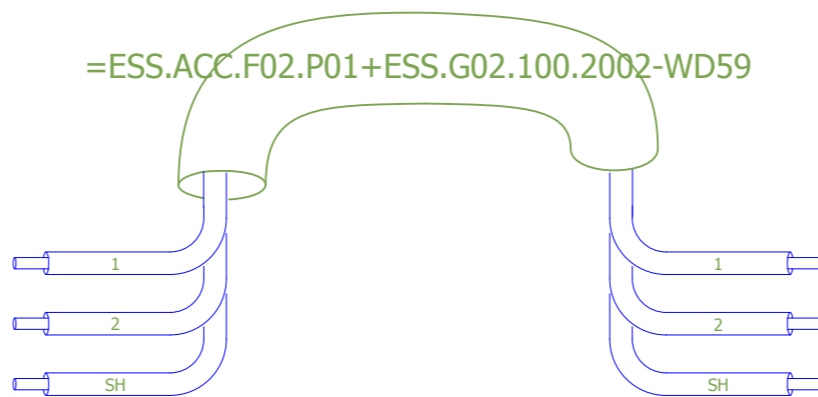
Function text

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD59

Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/5.1

-X27.1:5

-PJ15:X1

+&FS/5.1

+&FS/5.1

-X27.1:6

-PJ15:X2

+&FS/5.1

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2	Preliminary	A3	1	2
SHEET =ESS.ACC.F02.P01&MB/59				NEXT 60			

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD60

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/5.2

-X27.2:1

1

1

-PF21:X1

+&FS/5.2

+&FS/5.2

-X27.2:2

2

2

-PF21:X2

+&FS/5.2

SH

SH

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/60							
NEXT 61							

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

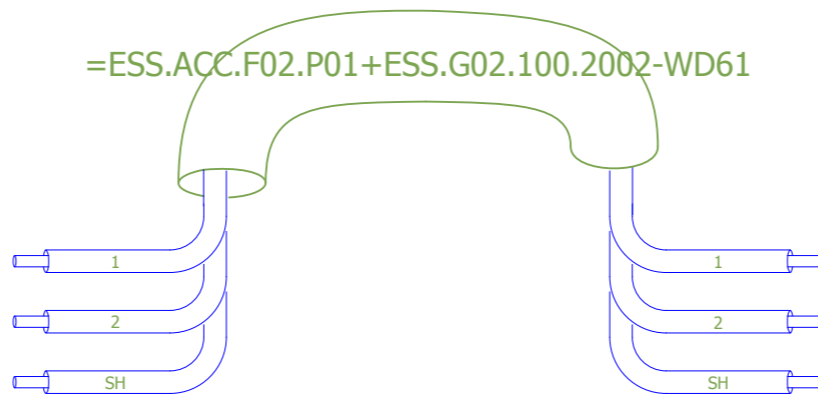
Length

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD61

Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/5.3

-X27.2:5

-PJ16:X1

+&FS/5.3

+&FS/5.3

-X27.2:6

-PJ16:X2

+&FS/5.3

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2	Preliminary	A3	1	2
SHEET =ESS.ACC.F02.P01&MB/61				NEXT 62			

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD62

Function text

X-Ref

Target designation from

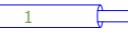
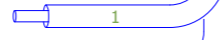
Target designation to

X-Ref

Function text

+&FS/5.4

-X27.3:1



-PF22:X1

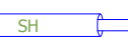
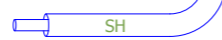
+&FS/5.4

+&FS/5.4

-X27.3:2

-PF22:X2

+&FS/5.4



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/62							
NEXT 63							

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

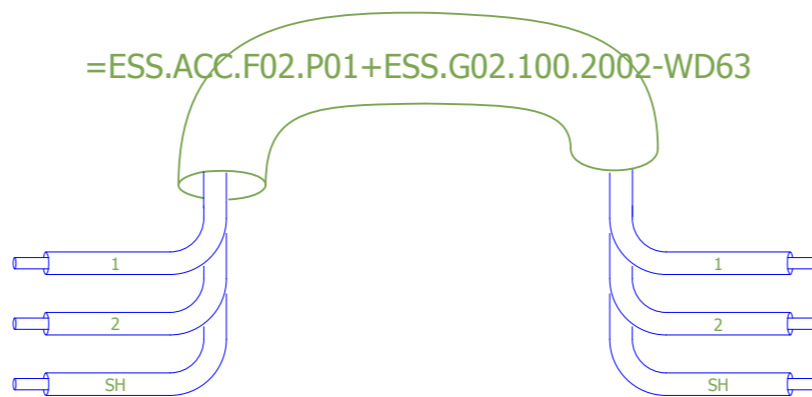
Function text

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD63

Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/5.5

-X27.4:1

1

1

-PF23:X1

+&FS/5.5

+&FS/5.5

-X27.4:2

2

2

-PF23:X2

+&FS/5.5

SH

SH

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2	Preliminary	A3	1	2
SHEET =ESS.ACC.F02.P01&MB/63				NEXT 64			

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD64



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



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CHECKED BY MM	DATE
APPROVED BY SLB	DATE 01-Sep-17
DESIGN SITE ESS	

DRAWING TITLE Accelerator ODH Detection System
PAGE TYPE Cable diagram
FUNCTION

DRAWING NUMBER (Doc) ESS-0089356			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
SHEET =ESS.ACC.F02.P01&MB/64			
NEXT 65			

Cable diagram

F09_003

No. of conductors
7G

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD65

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

=.ACC.F02.K01.U3+&FS/26.4

=.ACC.F02.K01.U3-X11:6

1

1

-X28.1:1

+&FS/6.0

=.ACC.F02.K01.U3+&FS/31.2

=.ACC.F02.K01.U3-X103

2

2

-X28.1:2

+&FS/6.0

+&FS/6.0

3

3

-X28.1:3

+&FS/6.0

+&FS/6.1

4

4

-X28.1:4

+&FS/6.1

=.ACC.F02.K01.U3+&FS/26.4

=.ACC.F02.K01.U3-X11:8

5

5

-X28.1:5

+&FS/6.1

=.ACC.F02.K01.U3+&FS/31.2

=.ACC.F02.K01.U3-X103

6

6

-X28.1:6

+&FS/6.1

GNYE

GNYE

SH

SH

+&FS/6.1

PE

SH

-X28.1:7

+&FS/6.1

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.P01&MB/65		
NEXT	66		

Cable diagram

F09_003

No. of conductors
7G

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD66

Function text

X-Ref

Target designation from

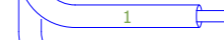
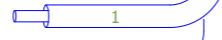
Target designation to

X-Ref

Function text

+&FS/6.0

-X28.1:1

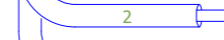
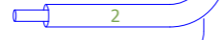


-X28.2:1

+&FS/6.2

+&FS/6.0

-X28.1:2

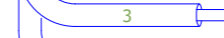
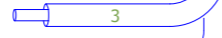


-X28.2:2

+&FS/6.2

+&FS/6.0

-X28.1:3



-X28.2:3

+&FS/6.2

+&FS/6.1

-X28.1:4

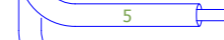
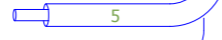


-X28.2:4

+&FS/6.2

+&FS/6.1

-X28.1:5



-X28.2:5

+&FS/6.3

+&FS/6.1

-X28.1:6



-X28.2:6

+&FS/6.3



+&FS/6.1

-X28.1:7



-X28.2:7

+&FS/6.3

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.P01&MB/66		
NEXT	67		

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD67

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/6.0

-X28.1:1

1

-PF25:X1

+&FS/6.0

+&FS/6.0

-X28.1:2

2

-PF25:X2

+&FS/6.0

SH

SH

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/67							
NEXT 68							

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD68



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



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CHECKED BY MM	DATE
APPROVED BY SLB	DATE 01-Sep-17
DESIGN SITE ESS	

DRAWING TITLE Accelerator ODH Detection System
PAGE TYPE Cable diagram
FUNCTION

DRAWING NUMBER (Doc) ESS-0089356			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
SHEET =ESS.ACC.F02.P01&MB/68			
NEXT 69			

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD69



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD		2017-09-01	Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY			PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				MM			Cable diagram	Preliminary	A3	1	2
				APPROVED BY			FUNCTION	SHEET =ESS.ACC.F02.P01&MB/69			
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	SLB		01-Sep-17		NEXT 70			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE		ESS					



Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD70

Function text

X-Ref

Target designation from

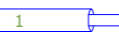
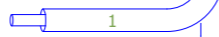
Target designation to

X-Ref

Function text

+&FS/6.3

-X28.2:5



-PJ18:X1

+&FS/6.3

+&FS/6.3

-X28.2:6

-PJ18:X2

+&FS/6.3

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/70							
NEXT 71							

Cable diagram

F09_003

No. of conductors
7G

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD71

Function text	X-Ref	Target designation from			Target designation to	X-Ref	Function text
			1		1	-X29.1:1	+&FS/7.0
=.ACC.F02.K01.U3+&FS/26.6		=.ACC.F02.K01.U3-X11:12	2		2	-X29.1:2	+&FS/7.0
=.ACC.F02.K01.U3+&FS/31.2		=.ACC.F02.K01.U3-X103	3		3	-X29.1:3	+&FS/7.0
+&FS/7.0			4		4	-X29.1:4	+&FS/7.1
+&FS/7.1			5		5	-X29.1:5	+&FS/7.1
=.ACC.F02.K01.U3+&FS/26.6		=.ACC.F02.K01.U3-X11:14	6		6	-X29.1:6	+&FS/7.1
=.ACC.F02.K01.U3+&FS/31.2		=.ACC.F02.K01.U3-X103	GNYE		GNYE		
			SH		SH		
	+&FS/7.1	PE	SH		SH	-X29.1:7	+&FS/7.1

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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DESIGN SITE ESS	

DRAWING TITLE Accelerator ODH Detection System
PAGE TYPE Cable diagram
FUNCTION

DRAWING NUMBER (Doc) ESS-0089356			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
SHEET =ESS.ACC.F02.P01&MB/71			
NEXT 72			

Cable diagram

F09_003

No. of conductors
7G

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD72

Function text

X-Ref

Target designation from

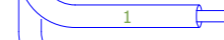
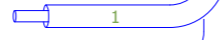
Target designation to

X-Ref

Function text

+&FS/7.0

-X29.1:1

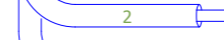
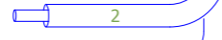


-X29.2:1

+&FS/7.2

+&FS/7.0

-X29.1:2

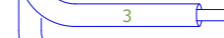
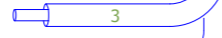


-X29.2:2

+&FS/7.2

+&FS/7.0

-X29.1:3



-X29.2:3

+&FS/7.2

+&FS/7.1

-X29.1:4

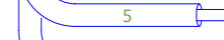
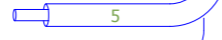


-X29.2:4

+&FS/7.2

+&FS/7.1

-X29.1:5



-X29.2:5

+&FS/7.3

+&FS/7.1

-X29.1:6



-X29.2:6

+&FS/7.3



+&FS/7.1

-X29.1:7



-X29.2:7

+&FS/7.3

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.P01&MB/72		
NEXT	73		

Cable diagram

F09_003

No. of conductors
7G

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD73

Function text	X-Ref	Target designation from			Target designation to	X-Ref	Function text
			1		1	-X29.3:1	+&FS/7.4
=.ACC.F02.K01.U3+&FS/26.7		=.ACC.F02.K01.U3-X11:16	2		2	-X29.3:2	+&FS/7.4
=.ACC.F02.K01.U3+&FS/31.2		=.ACC.F02.K01.U3-X103	3		3	-X29.3:3	+&FS/7.4
+&FS/7.4			4		4	-X29.3:4	+&FS/7.4
+&FS/7.4			5		5	-X29.3:5	+&FS/7.4
=.ACC.F02.K01.U3+&FS/27.2		=.ACC.F02.K01.U3-X11:18	6		6	-X29.3:6	+&FS/7.5
=.ACC.F02.K01.U3+&FS/31.2		=.ACC.F02.K01.U3-X103	GNYE		GNYE		
			SH		SH		
	+&FS/7.5	PE	SH		SH	-X29.3:7	+&FS/7.5

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/73							
NEXT 74							

Cable diagram

F09_003

No. of conductors
7G

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD74

Function text	X-Ref	Target designation from			Target designation to	X-Ref	Function text
	+&FS/7.4	-X29.3:1			1	-X29.4:1	+&FS/7.6
	+&FS/7.4	-X29.3:2			2	-X29.4:2	+&FS/7.6
	+&FS/7.4	-X29.3:3			3	-X29.4:3	+&FS/7.6
	+&FS/7.4	-X29.3:4			4	-X29.4:4	+&FS/7.6
	+&FS/7.4	-X29.3:5			5	-X29.4:5	+&FS/7.6
	+&FS/7.5	-X29.3:6			6	-X29.4:6	+&FS/7.6
					GNYE		
			SH				
	+&FS/7.5	-X29.3:7	SH	-X29.4:7	+&FS/7.7		

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.P01&MB/74		
NEXT	75		

Cable diagram

F09_003

No. of conductors
7G

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD75

Function text

X-Ref

Target designation from

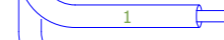
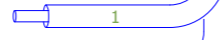
Target designation to

X-Ref

Function text

+&FS/7.6

-X29.4:1

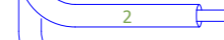
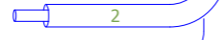


-X29.5:1

+&FS/7.7

+&FS/7.6

-X29.4:2

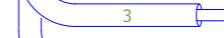
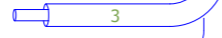


-X29.5:2

+&FS/7.8

+&FS/7.6

-X29.4:3

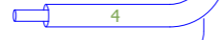


-X29.5:3

+&FS/7.8

+&FS/7.6

-X29.4:4

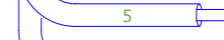
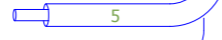


-X29.5:4

+&FS/7.8

+&FS/7.6

-X29.4:5



-X29.5:5

+&FS/7.8

+&FS/7.6

-X29.4:6



-X29.5:6

+&FS/7.8



+&FS/7.7

-X29.4:7



-X29.5:7

+&FS/7.9

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.P01&MB/75		
NEXT	76		

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

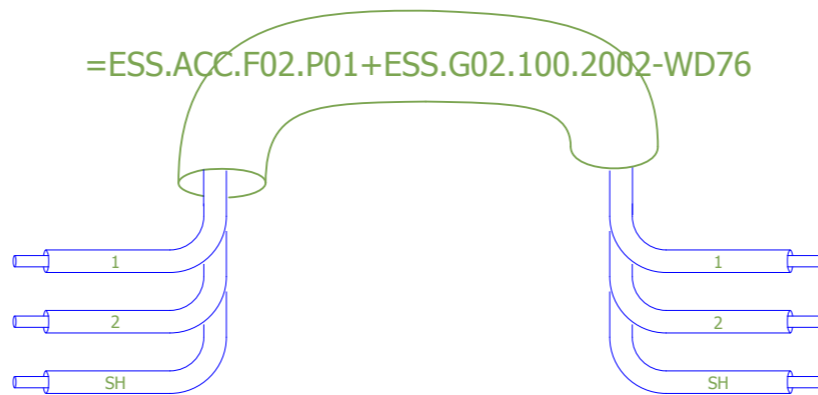
Function text

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD76

Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/7.0

-X29.1:1

-PF27:X1

+&FS/7.0

+&FS/7.0

-X29.1:2

-PF27:X2

+&FS/7.0

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/76							
NEXT 77							

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

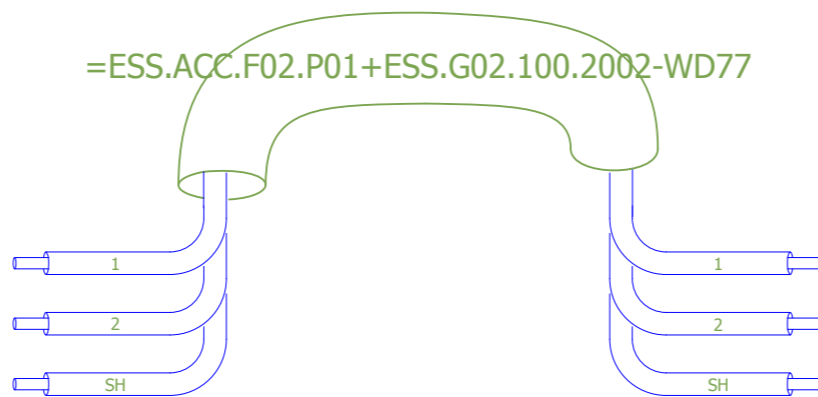
Function text

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD77

Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/7.1

-X29.1:5

1

1

-PJ19:X1

+&FS/7.1

+&FS/7.1

-X29.1:6

2

2

-PJ19:X2

+&FS/7.1

SH

SH

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/77							
NEXT 78							

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD78



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)	ESS-0089356		
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
Preliminary	A3	1	2
SHEET	=ESS.ACC.F02.P01&MB/78		
NEXT	79		

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD79

Function text

X-Ref

Target designation from

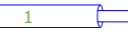
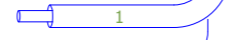
Target designation to

X-Ref

Function text

+&FS/7.3

-X29.2:5



-PJ20:X1

+&FS/7.3

+&FS/7.3

-X29.2:6

-PJ20:X2

+&FS/7.3

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/79							
NEXT 80							

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD80

Function text

X-Ref

Target designation from

Target designation to

X-Ref

Function text

+&FS/7.4

-X29.3:1

1

1

-PF29:X1

+&FS/7.4

+&FS/7.4

-X29.3:2

2

2

-PF29:X2

+&FS/7.4

SH

SH

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET				=ESS.ACC.F02.P01&MB/80			
NEXT				81			

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

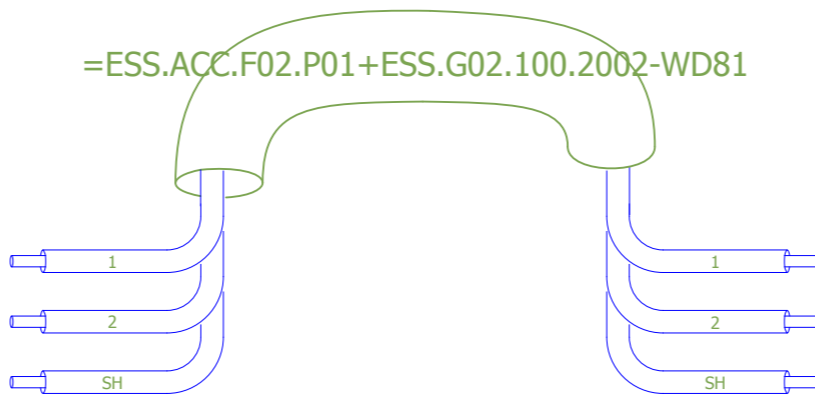
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Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/7.4

-X29.3:5

-PJ21:X1

+&FS/7.5

+&FS/7.5

-X29.3:6

-PJ21:X2

+&FS/7.5

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
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DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/81							
NEXT 82							

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

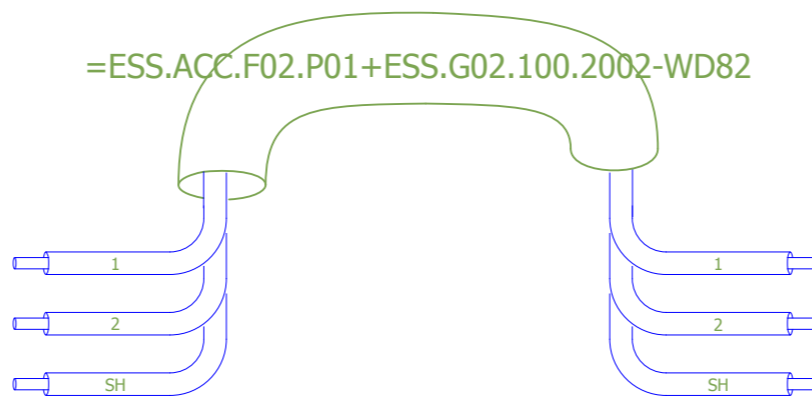
Function text

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD82

Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/7.6

-X29.4:1

-PF30:X1

+&FS/7.6

+&FS/7.6

-X29.4:2

-PF30:X2

+&FS/7.6

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET				=ESS.ACC.F02.P01&MB/82			
NEXT				83			

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

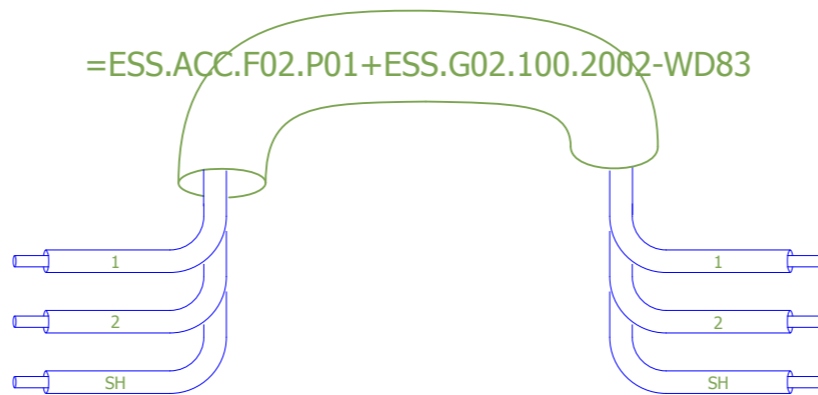
Function text

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD83

Function text

X-Ref

Target designation from



Target designation to

X-Ref

Function text

+&FS/7.6

-X29.4:5

-PJ22:X1

+&FS/7.6

+&FS/7.6

-X29.4:6

-PJ22:X2

+&FS/7.6

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System		
PAGE TYPE	Cable diagram		
FUNCTION			

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET =ESS.ACC.F02.P01&MB/83							
NEXT 84							

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD84



REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY MM & ATD	DATE 2017-09-01
CHECKED BY MM	DATE
APPROVED BY SLB	DATE 01-Sep-17
DESIGN SITE ESS	

DRAWING TITLE Accelerator ODH Detection System
PAGE TYPE Cable diagram
FUNCTION

DRAWING NUMBER (Doc) ESS-0089356			
LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
SHEET =ESS.ACC.F02.P01&MB/84			
NEXT 85			

Cable diagram

F09_003

No. of conductors
2X

Cable type
ÖLFLEX® CLASSIC 135 CH

Cross-section
mm²

Length

Function text

=ESS.ACC.F02.P01+ESS.G02.100.2002-WD85

Function text

X-Ref

Target designation from

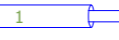
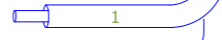
Target designation to

X-Ref

Function text

+&FS/7.8

-X29.5:5



-PJ23:X1

+&FS/7.8

+&FS/7.8

-X29.5:6

-PJ23:X2

+&FS/7.8

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE
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1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.



DRAWN BY	MM & ATD	DATE	2017-09-01
CHECKED BY	MM	DATE	
APPROVED BY	SLB	DATE	01-Sep-17
DESIGN SITE	ESS		

DRAWING TITLE	Accelerator ODH Detection System
PAGE TYPE	Cable diagram
FUNCTION	

DRAWING NUMBER (Doc)				ESS-0089356			
LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV				
Preliminary	A3	1	2				
SHEET				=ESS.ACC.F02.P01&MB/85			
NEXT				&PC/1			

Parts list

ESS_Parts_list_ver2-2017

FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.P01 +ESS.G02.100.2002-PF20 RSL-20	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-PF21 RSL-21	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-PF22 RSL-22	1	Rotating Mirror Beacon	88510075		88510075	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-PF23 RSL-23	1	Rotating Mirror Beacon	88510075		88510075	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-PF24 RSL-24	1	Rotating Mirror Beacon	88510075		88510075	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-PF25 RSL-25	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-PF26 RSL-26	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-PF27 RSL-27	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-PF28 RSL-28	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-PF29 RSL-29	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-PF30 RSL-30	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-PF31 RSL-31	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-PJ15 ACS-15	1	Multi-t.sounder WM 32 tne 9-28VDC	14015050		14015050	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-PJ16 ACS-16	1	Multi-t.sounder WM 32 tne 9-28VDC	14015050		14015050	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-PJ17 ACS-17	1	Multi-t.sounder WM 32 tne 9-28VDC	14015050		14015050	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-PJ18 ACS-18	1	Multi-t.sounder WM 32 tne 9-28VDC	14015050		14015050	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-PJ19 ACS-19	1	Multi-t.sounder WM 32 tne 9-28VDC	14015050		14015050	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-PJ20 ACS-20	1	Multi-t.sounder WM 32 tne 9-28VDC	14015050		14015050	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWING TITLE		DRAWING NUMBER (Doc)	
				MM & ATD	2017-09-01	Accelerator ODH Detection System	ESS-0089356
				CHECKED BY MM		PAGE TYPE Parts list	LIFECYCLE LABEL Preliminary
				APPROVED BY SLB	01-Sep-17	FUNCTION	PAGE SIZE A3
				DESIGN SITE ESS			PAGE SCALE 1
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams				REV 2
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.				SHEET =ESS.ACC.F02.P01&PC/1 NEXT 1.1



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.P01 +ESS.G02.100.2002-PJ21 ACS-21	1	Multi-t.sounder WM 32 tne 9-28VDC	14015050		14015050	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-PJ22 ACS-22	1	Multi-t.sounder WM 32 tne 9-28VDC	14015050		14015050	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-PJ23 ACS-23	1	Rotating Mirror Beacon	88510075		88510075	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD53 82C004023	1	ÖLFLEX® CLASSIC 135 CH 7G1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123314	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD54 82C004024	1	ÖLFLEX® CLASSIC 135 CH 7G1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123314	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD55 82C004006	1	ÖLFLEX® CLASSIC 135 CH 4X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123310	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD56 82C004007	1	ÖLFLEX® CLASSIC 135 CH 4X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123310	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD57 82C004008	1	ÖLFLEX® CLASSIC 135 CH 4X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123310	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD58 82C003980	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD59 82C003981	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD60 82C003982	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD61 82C003983	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD62 82C003984	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD63 82C003985	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD64 82C003986	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD65 82C004025	1	ÖLFLEX® CLASSIC 135 CH 7G1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123314	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD66 82C004026	1	ÖLFLEX® CLASSIC 135 CH 7G1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123314	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD67 82C003987	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	MM & ATD		2017-09-01	Accelerator ODH Detection System	ESS-0089356			
REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	MM			Parts list	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	SLB		01-Sep-17		Preliminary	A3	1	2
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	ePLAN® electric 8 v2.5.4		ESS		SHEET =ESS.ACC.F02.P01&PC/1.1			
								NEXT 1.2			



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD68 82C003988	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD69 82C003989	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD70 82C003990	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD71 82C004027	1	ÖLFLEX® CLASSIC 135 CH 7G1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123314	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD72 82C004028	1	ÖLFLEX® CLASSIC 135 CH 7G1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123314	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD73 82C004029	1	ÖLFLEX® CLASSIC 135 CH 7G1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123314	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD74 82C004030	1	ÖLFLEX® CLASSIC 135 CH 7G1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123314	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD75 82C004031	1	ÖLFLEX® CLASSIC 135 CH 7G1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123314	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD76 82C003991	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD77 82C003992	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD78 82C003993	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD79 82C003994	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD80 82C003995	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD81 82C003996	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD82 82C003997	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD83 82C003998	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD84 82C003999	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-WD85 82C004000	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD		2017-09-01	Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY MM			PAGE TYPE Parts list	LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	APPROVED BY SLB		01-Sep-17	FUNCTION	SHEET =ESS.ACC.F02.P01&PC/1.2			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE ESS				NEXT 1.3			



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X27.1	6	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X27.1	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X27.2	6	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X27.2	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X27.3	4	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X27.3	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X27.4	4	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X27.4	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X27.5	4	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X27.5	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X28.1	6	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X28.1	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X28.2	6	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X28.2	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X29.1	6	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X29.1	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X29.2	6	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X29.2	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWING TITLE		DRAWING NUMBER (Doc)	
				MM & ATD	2017-09-01	Accelerator ODH Detection System	
				CHECKED BY MM		PAGE TYPE Parts list	LIFECYCLE LABEL Preliminary
				APPROVED BY SLB	01-Sep-17	FUNCTION	PAGE SIZE A3
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	DESIGN SITE ESS			PAGE SCALE 1
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.				REV 2
						SHEET =ESS.ACC.F02.P01&PC/1.3	
						NEXT 1.4	



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X29.3	6	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X29.3	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X29.4	6	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X29.4	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X29.5	6	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-X29.5	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G02.100.2002-XD27.1	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-XD27.2	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-XD27.3	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-XD27.4	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-XD27.5	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-XD28.1	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-XD28.2	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-XD29.1	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-XD29.2	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-XD29.3	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-XD29.4	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G02.100.2002-XD29.5	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD		2017-09-01	Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY		DATE	PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				MM			Parts list	Preliminary	A3	1	2
				APPROVED BY		DATE	FUNCTION	SHEET =ESS.ACC.F02.P01&PC/1.4			
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	SLB		01-Sep-17		NEXT 1.5			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE		ESS					



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.P01 +ESS.G04.100.7001-PF7 RSL-7	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-PF8 RSL-8	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-PF9 RSL-9	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-PF10 RSL-10	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-PF11 RSL-11	1	Rotating Mirror Beacon	88510075		88510075	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-PF12 RSL-12	1	Rotating Mirror Beacon	88510075		88510075	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-PJ5 ACS-5	1	Multi-t.sounder WM 32 tne 9-28VDC	14015050		14015050	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-PJ6 ACS-6	1	Multi-t.sounder WM 32 tne 9-28VDC	14015050		14015050	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-PJ7 ACS-7	1	Multi-t.sounder WM 32 tne 9-28VDC	14015050		14015050	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-PJ8 ACS-8	1	Multi-t.sounder WM 32 tne 9-28VDC	14015050		14015050	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-WD17 82C004013	1	ÖLFLEX® CLASSIC 135 CH 7G1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123314	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-WD18 82C004014	1	ÖLFLEX® CLASSIC 135 CH 7G1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123314	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-WD19 82C004015	1	ÖLFLEX® CLASSIC 135 CH 7G1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123314	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-WD20 82C004016	1	ÖLFLEX® CLASSIC 135 CH 7G1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123314	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-WD21 82C004003	1	ÖLFLEX® CLASSIC 135 CH 4X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123310	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-WD22 82C004004	1	ÖLFLEX® CLASSIC 135 CH 4X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123310	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-WD23 82C003957	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-WD24 82C003958	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD		2017-09-01	Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY		DATE	PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				MM			Parts list	Preliminary	A3	1	2
				APPROVED BY		DATE	FUNCTION	SHEET =ESS.ACC.F02.P01&PC/1.5			
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	SLB		01-Sep-17					
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE		ESS		NEXT 1.6			



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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.P01 +ESS.G04.100.7001-WD25 82C003959	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-WD26 82C003960	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-WD27 82C003961	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-WD28 82C003962	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-WD29 82C003963	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-WD30 82C003964	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-WD31 82C003965	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-WD32 82C003966	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-X24.1	6	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-X24.2	6	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-X24.2	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G04.100.7001-X24.4	6	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-X24.4	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G04.100.7001-X24.5	4	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-X24.5	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G04.100.7001-X24.6	4	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-X24.6	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G04.100.7001-XD24.1	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWING TITLE		DRAWING NUMBER (Doc)		
				MM & ATD	2017-09-01	Accelerator ODH Detection System		ESS-0089356
				CHECKED BY MM		PAGE TYPE Parts list	LIFECYCLE LABEL Preliminary	PAGE SIZE A3
				APPROVED BY SLB	01-Sep-17	FUNCTION	PAGE SCALE 1	REV 2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	DESIGN SITE ESS			SHEET =ESS.ACC.F02.P01&PC/1.6	
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.				NEXT 1.7	



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.P01 +ESS.G04.100.7001-XD24.2	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-XD24.3	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-XD24.3-X24.3	6	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-XD24.3-X24.3	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G04.100.7001-XD24.4	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-XD24.5	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G04.100.7001-XD24.6	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-PF1 RSL-1	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-PF2 RSL-2	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-PF3 RSL-3	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-PF4 RSL-4	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-PF5 RSL-5	1	Rotating Mirror Beacon	88510075		88510075	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-PF6 RSL-6	1	Rotating Mirror Beacon	88510075		88510075	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-PF16 RSL-16	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-PF17 RSL-17	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-PF18 RSL-18	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-PF19 RSL-19	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-PJ1 ACS-1	1	Multi-t.sounder WM 32 tne 9-28VDC	14015050		14015050	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD		2017-09-01	Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY		DATE	PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				MM			Parts list	Preliminary	A3	1	2
				APPROVED BY		DATE	FUNCTION	SHEET =ESS.ACC.F02.P01&PC/1.7			
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	SLB		01-Sep-17					
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE		ESS		NEXT 1.8			



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.P01 +ESS.G04.100.7002-PJ2 ACS-2	1	Multi-t.souder WM 32 tne 9-28VDC	14015050		14015050	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-PJ3 ACS-3	1	Multi-t.souder WM 32 tne 9-28VDC	14015050		14015050	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-PJ4 ACS-4	1	Multi-t.souder WM 32 tne 9-28VDC	14015050		14015050	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-PJ11 ACS-11	1	Multi-t.souder WM 32 tne 9-28VDC	14015050		14015050	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-PJ12 ACS-12	1	Multi-t.souder WM 32 tne 9-28VDC	14015050		14015050	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-PJ13 ACS-13	1	Multi-t.souder WM 32 tne 9-28VDC	14015050		14015050	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-PJ14 ACS-14	1	Multi-t.souder WM 32 tne 9-28VDC	14015050		14015050	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD1 82C004009	1	ÖLFLEX® CLASSIC 135 CH 7G1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123314	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD2 82C004010	1	ÖLFLEX® CLASSIC 135 CH 7G1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123314	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD3 82C004011	1	ÖLFLEX® CLASSIC 135 CH 7G1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123314	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD4 82C004012	1	ÖLFLEX® CLASSIC 135 CH 7G1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123314	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD5 82C004001	1	ÖLFLEX® CLASSIC 135 CH 4X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123310	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD6 82C004002	1	ÖLFLEX® CLASSIC 135 CH 4X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123310	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD7 82C003947	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD8 82C003948	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD9 82C003949	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD10 82C003950	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD11 82C003951	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWING TITLE		DRAWING NUMBER (Doc)	
				MM & ATD	2017-09-01	Accelerator ODH Detection System	ESS-0089356
				MM		Parts list	Preliminary
				SLB	01-Sep-17		A3
				ESS			1
							2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams			SHEET =ESS.ACC.F02.P01&PC/1.8	
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.			NEXT 1.9	



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD12 82C003952	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD13 82C003953	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD14 82C003954	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD15 82C003955	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD16 82C003956	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD41 82C004019	1	ÖLFLEX® CLASSIC 135 CH 7G1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123314	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD42 82C004020	1	ÖLFLEX® CLASSIC 135 CH 7G1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123314	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD43 82C004021	1	ÖLFLEX® CLASSIC 135 CH 7G1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123314	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD44 82C004022	1	ÖLFLEX® CLASSIC 135 CH 7G1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123314	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD45 82C003972	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD46 82C003973	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD47 82C003974	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD48 82C003975	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD49 82C003976	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD50 82C003977	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD51 82C003978	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-WD52 82C003979	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-X23.1	6	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD		2017-09-01	Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY		DATE	PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				MM			Parts list	Preliminary	A3	1	2
				APPROVED BY		DATE	FUNCTION	SHEET =ESS.ACC.F02.P01&PC/1.9			
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	SLB		01-Sep-17		NEXT 1.10			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE		ESS					



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.P01 +ESS.G04.100.7002-X23.1	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G04.100.7002-X23.2	6	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-X23.2	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G04.100.7002-X23.3	6	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-X23.3	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G04.100.7002-X23.4	6	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-X23.4	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G04.100.7002-X23.5	4	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-X23.5	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G04.100.7002-X23.6	4	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-X23.6	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G04.100.7002-X26.1	6	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-X26.1	1	Ground modular terminal block	PT 2,5/1P-PE/SIE	Phoenix Contact	PXC.3210060	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-X26.2	6	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-X26.2	1	Ground modular terminal block	PT 2,5/1P-PE/SIE	Phoenix Contact	PXC.3210060	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-X26.3	6	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-X26.3	1	Ground modular terminal block	PT 2,5/1P-PE/SIE	Phoenix Contact	PXC.3210060	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-X26.4	6	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWING TITLE		DRAWING NUMBER (Doc)				
				MM & ATD	2017-09-01	Accelerator ODH Detection System				
				MM		Parts list	Preliminary	A3	1	2
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	SLB	01-Sep-17	SHEET =ESS.ACC.F02.P01&PC/1.10				
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	ESS		NEXT 1.11				



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.P01 +ESS.G04.100.7002-X26.4	1	Ground modular terminal block	PT 2,5/1P-PE/SIE	Phoenix Contact	PXC.3210060	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-XD23.1	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-XD23.2	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-XD23.3	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-XD23.4	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-XD23.5	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-XD23.6	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-XD26.1	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-XD26.2	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-XD26.3	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G04.100.7002-XD26.4	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G04.100.7004-PF13 RSL-13	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G04.100.7004-PF14 RSL-14	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G04.100.7004-PF15 RSL-15	1	Solex Beacon, Amber Lens, White Shallow Base,10cd	531024FULL-0060		531024FULL-0060	
=ESS.ACC.F02.P01 +ESS.G04.100.7004-PJ9 ACS-9	1	Multi-t.sounder WM 32 tne 9-28VDC	14015050		14015050	
=ESS.ACC.F02.P01 +ESS.G04.100.7004-PJ10 ACS-10	1	Multi-t.sounder WM 32 tne 9-28VDC	14015050		14015050	
=ESS.ACC.F02.P01 +ESS.G04.100.7004-WD33 82C004017	1	ÖLFLEX® CLASSIC 135 CH 7G1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123314	
=ESS.ACC.F02.P01 +ESS.G04.100.7004-WD34 82C004018	1	ÖLFLEX® CLASSIC 135 CH 7G1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123314	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)			
				MM & ATD		2017-09-01	Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY		DATE	PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				MM			Parts list	Preliminary	A3	1	2
				APPROVED BY		DATE	FUNCTION	SHEET =ESS.ACC.F02.P01&PC/1.11			
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	SLB		01-Sep-17		NEXT 1.12			
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE		ESS					



Parts list

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FBS-Tag ESS-Name	Quantity	Designation	Type number	Manufacturer	Part number	ESS-Part number
=ESS.ACC.F02.P01 +ESS.G04.100.7004-WD35 82C004005	1	ÖLFLEX® CLASSIC 135 CH 4X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123310	
=ESS.ACC.F02.P01 +ESS.G04.100.7004-WD36 82C003967	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7004-WD37 82C003968	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7004-WD38 82C003969	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7004-WD39 82C003970	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7004-WD40 82C003971	1	ÖLFLEX® CLASSIC 135 CH 2X1,5	ÖLFLEX® CLASSIC 135 CH	LAPP	LAPP.1123306	
=ESS.ACC.F02.P01 +ESS.G04.100.7004-X25.1	6	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G04.100.7004-X25.1	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G04.100.7004-X25.2	6	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G04.100.7004-X25.2	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G04.100.7004-X25.3	4	Knife disconnect terminal block	PT 2,5-MT	Phoenix Contact	PXC.3210156	
=ESS.ACC.F02.P01 +ESS.G04.100.7004-X25.3	1	Ground modular terminal block	PT 2,5/1P-PE	Phoenix Contact	PXC.3210059	PXC.3210059
=ESS.ACC.F02.P01 +ESS.G04.100.7004-XD25.1	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G04.100.7004-XD25.2	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	
=ESS.ACC.F02.P01 +ESS.G04.100.7004-XD25.3	1	PK Polycarbonate enclosure, WHD: 130x94x57 mm	PK.9508050	Rittal	RIT.9508050	

REVISION	REVISION DATE	DESCRIPTION OF REVISION	REASON FOR REVISION CHANGE	DRAWN BY		DATE	DRAWING TITLE	DRAWING NUMBER (Doc)		
				MM & ATD	2017-09-01	Accelerator ODH Detection System	ESS-0089356			
				CHECKED BY		PAGE TYPE	LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
				MM		Parts list	Preliminary	A3	1	2
				APPROVED BY		FUNCTION	SHEET =ESS.ACC.F02.P01&PC/1.12			
2	01/09/2017	Version valid for construction	Contains: field devices distrib. & circuit diagrams	SLB	01-Sep-17					
1	17/01/2017	Preliminary drawings	Contains: cable support system & field devices distrib.	DESIGN SITE	ESS		NEXT			

