



EUROPEAN
SPALLATION
SOURCE

Projekt name: Test Rig for Target Wheel

System: ESS.ACC.DTL

Location: G02.DTL.01.A1

= ESS.ACC.DTL
+ G02.DTL.01.A1





 <div>EUROPEAN SPALLATION SOURCE</div> <div>Documentation protection ISO 16016</div>	DRAWN BY	Date	DRAWING TITLE		DRAWING NUMBER (Doc)			
	CHECKED BY	Date	Project template ESS		ESS-xxxxxxx			
	APPROVED BY	Date	PAGE DESCRIPTION		LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
	 v2.7.3	DESIGN SITE	FUNCTION		SHEET			
		ESS			=ESS.ACC.DTL+G02.DTL.01.A1&AA/1			
				NEXT &AB/1				

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ESS_Table_of_contents_ver1

Assignment	Page	Page description	Supplementary page field	Date	Edited by
=ESS.ACC.DTL+G02.DTL.01.A1					
	AA/1	Title page		1/21/2020	Markuslarsson
	AB/1	Table of contents		1/21/2020	Markuslarsson
	LU/2	Enclosure legend : =TS+SSS.DTL.01.A1-F1 - =TS+SSS.DTL.01.A1-F12		1/21/2020	Markuslarsson
	LU/3	Enclosure legend : =+-1 - =+-25		1/21/2020	Markuslarsson
	LU/3.1	Enclosure legend : =ESS.ACC.DTL+G02.DTL.01.A1-A1 - =ESS.ACC.DTL+G02.DTL.01.A1-T1		1/21/2020	Markuslarsson
	PC/1	Part List		1/21/2020	Markuslarsson
	PC/2	Part List		1/21/2020	Markuslarsson

= ESS.ACC.DTL
+ G02.DTL.01.A1



 <div>EUROPEAN SPALLATION SOURCE</div> <div>Documentation protection ISO 16016</div>	DRAWN BY	Date	DRAWING TITLE		DRAWING NUMBER (Doc)			
	CHECKED BY	Date	Project template ESS		ESS-xxxxxxx			
	APPROVED BY	Date	PAGE DESCRIPTION		LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
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					NEXT			
					&LU/2			

Enclosure legend

F18_005

Item number	Device tag	Type number
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2	F2	FAZ-C6/1
3	F3	FAZ-C6/1
4	F4	FAZ-C6/1
5	U1	HCS02.1E-W0028-A-03-NNNN
6	FB1	FI-16/2/003
7	XG1	SZ.2506100
9	A1	CX5130-0130
10	A2	PNOZ s30 C 24-240VAC/DC
11	A3	PNOZ s3 24VDC
12	DI1	EL1018
13	DO1	EL2808
14	ST1	EL9505
15	DI2	EL1252-0050
16	ST2	EL9410
17	LC1	HNL01.1E-1000-N0020-A-500-NNNN
18	LF1	NFD03.1-480-030
19	T1	QS10.241
20	F11	FAZ-C6/1
21	F12	FAZ-C6/1

= ESS.ACC.DTL
+ G02.DTL.01.A1



 <div>EUROPEAN SPALLATION SOURCE</div> <div>Documentation protection ISO 16016</div>	DRAWN BY	Date	DRAWING TITLE		DRAWING NUMBER (Doc)			
	CHECKED BY	Date	Project template ESS		ESS-xxxxxxx			
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	 <div>v2.7.3</div>	DESIGN SITE	Enclosure legend : =TS+SSS.DTL.01.A1-F1 - =TS+SSS.DTL.01.A1-F12		=ESS.ACC.DTL+G02.DTL.01.A1&LU/2			
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Enclosure legend

F18_005

Item number	Device tag	Type number
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3	1	
4	1	
5	1	
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7	1	
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9	1	
10	1	
11	1	
12	1	
13	1	
14	1	
15	1	
16	1	
17	1	
18	1	
19	1	
20	1	
21	1	
22	1	
23	1	
24	1	
25	1	
26	1	
27	1	
28	1	
29	1	
30	1	
31	2	DK.7495000
32	3	DK.7495000
33	4	DK.7495000
34	5	DK.7495000
36	6	TS.8614660
43	Q2	6SL3210-1PE22-7AL0
44	12	TS 35_10
47	15	KK6040
48	16	KK6040
49	17	TS 35_10
50	18	KK6040
51	R1	6SL3203-0CE23-8AA0
52	19	TS 35_10
53	20	TS 35_10
54	F1	FAZ-C32/3
55	F2	FAZ-C6/1
56	F3	FAZ-C6/1
57	F4	FAZ-C6/1
58	F5	FAZ-C6/1
59	F11	FAZ-C6/1
60	F12	FAZ-C6/1
61	F21	FAZ-C6/1
62	F22	FAZ-C6/1
63	F23	FAZ-C6/1
64	21	KK6040
65	22	KK6040
66	23	KK6040
67	24	KK6040
68	25	KK6040

= ESS.ACC.DTL
+ G02.DTL.01.A1



 <div>EUROPEAN SPALLATION SOURCE</div> <div>Documentation protection ISO 16016</div>	DRAWN BY	Date	DRAWING TITLE		DRAWING NUMBER (Doc)			
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Enclosure legend

F18_005

Item number	Device tag	Type number
69	A1	CX5130-0130
70	26	KK6040
71	T1	QS10.241

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 <div>EUROPEAN SPALLATION SOURCE</div> <div>Documentation protection ISO 16016</div>	DRAWN BY	Date	DRAWING TITLE		DRAWING NUMBER (Doc)			
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					NEXT			
					&PC/1			





EUROPEAN
SPALLATION
SOURCE

Projekt name: Test Rig for Target Wheel

System:

Location:

 <div>EUROPEAN SPALLATION SOURCE</div> <div>Documentation protection ISO 16016</div>	DRAWN BY ML	Date 2017-06-04	DRAWING TITLE Project template ESS		DRAWING NUMBER (Doc) ESS-xxxxxxx			
	CHECKED BY	Date	PAGE DESCRIPTION Title page		LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1	REV 0.1
	APPROVED BY	Date	FUNCTION		SHEET &AA/1			
	 <div>v2.7.3</div>		DESIGN SITE ESS			NEXT &AB/1		

Terminal diagram

ESS_Treminal_diagram_ver1

Function text									Cable name =TS+SSS.DTL.01.A1-1W1	Cable type PSEN cable axial M12	Strip = +					Cable name =TS+SSS.DTL.01.A1-1W1	Cable type PSEN cable axial M12					Page / column	
											Target designation	Connection point	Terminal	Jumper	Target designation								Connection point
Spare																							=TS+SSS.DTL.01.A1&FS/1.7
=																							=TS+SSS.DTL.01.A1&FS/1.7
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								BU			=TS+SSS.DTL.01.A1-S11	7	2		=TS+SSS.DTL.01.A1-A3	X2.3							=TS+SSS.DTL.01.A1&FS/40.297
											=TS+SSS.DTL.01.A1-DI	1	5		=TS+SSS.DTL.01.A1-S11	5	GY						=TS+SSS.DTL.01.A1&FS/40.298

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EUROPEAN
SPALLATION
SOURCE

Projekt name: Test Rig for Target Wheel
System: TS
Location: SSS.DTL.01.A1

= TS
+ SSS.DTL.01.A1



 <div>EUROPEAN SPALLATION SOURCE</div> <div>Documentation protection ISO 16016</div>	DRAWN BY ML	Date 2017-06-14	DRAWING TITLE Project template ESS		DRAWING NUMBER (Doc) ESS-xxxxxxx		
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	 v2.7.3		DESIGN SITE ESS	NEXT &AB/1			

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	AA/1	Title page		6/21/2018	Markuslarsson
	AB/1	Table of contents		1/21/2020	Markuslarsson
	AB/1.1	Table of contents		1/21/2020	Markuslarsson
	EC/Genral requirem	Title page		6/21/2018	Markuslarsson
	FA/1	Power supply	Power supply rigg Target wheel	6/21/2018	Markuslarsson
	FS/1	Power supply incoming feed	Power supply in cabinet	1/21/2020	Markuslarsson
	FS/2	Power supply 400V	400V Power supply	1/21/2020	Markuslarsson
	FS/3	PLC Overview	PLC Overview	11/15/2018	Markuslarsson
	FS/4	PLC Power supply	Digital inputs	1/21/2020	Markuslarsson
	FS/5	PLC I/O	Beckhoff	1/21/2020	Markuslarsson
	FS/6	PLC I/O	Beckhoff	11/15/2018	Markuslarsson
	FS/7	Timing system		1/21/2020	Markuslarsson
	FS/8	Drive Controller safety	Digital outputs Start/Stop pump 1-3	11/15/2018	Markuslarsson
	FS/9	Drive Digital input 24V		1/21/2020	Markuslarsson
	FS/10	Encoder Sin Con		11/15/2018	Markuslarsson
	FS/39	Safety overspeed	Overspeed	11/15/2018	Markuslarsson
	FS/40	Safety Estop +Door		1/21/2020	Markuslarsson
	FS/41	Brake Target Wheel		6/21/2018	Markuslarsson
	FQ/1	Fuse table		6/21/2018	Markuslarsson
	MA/1	Terminal diagram		1/21/2020	Markuslarsson
	MA/2	Terminal diagram		1/21/2020	Markuslarsson
	MB/1	Cable Overview		1/21/2020	Markuslarsson
	MB/10	Cable diagram		1/21/2020	Markuslarsson
	MB/10.1	Cable diagram		1/21/2020	Markuslarsson
	MB/10.2	Cable diagram		1/21/2020	Markuslarsson

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	CHECKED BY	Date	Project template ESS		ESS-xxxxxxx			
	APPROVED BY	Date	PAGE DESCRIPTION		LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
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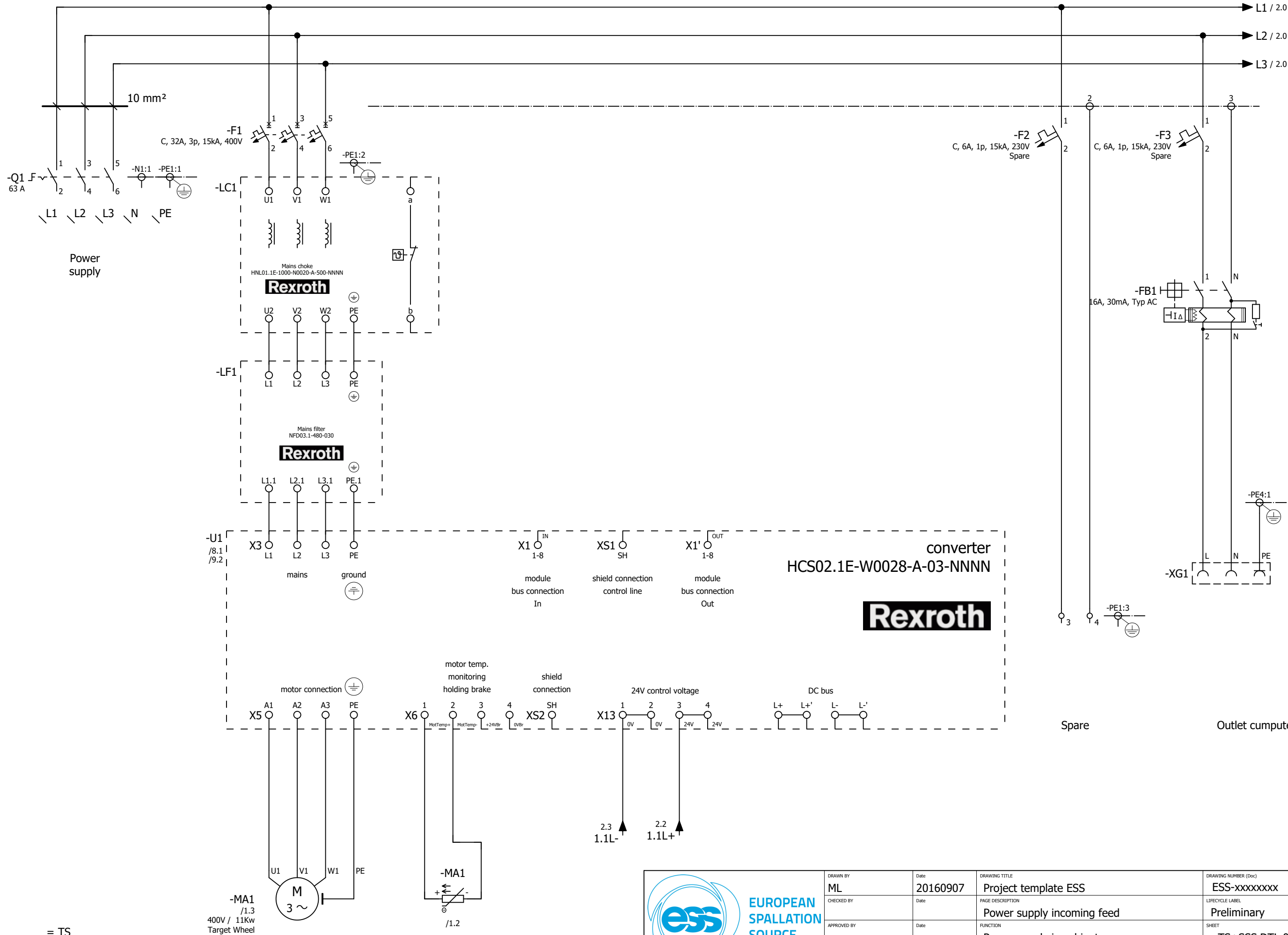
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	LU/2	Panel layout		1/21/2020	Markuslarsson
	PC/1	Part List		1/21/2020	Markuslarsson
	PC/2	Part List		1/21/2020	Markuslarsson

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 <div>EUROPEAN SPALLATION SOURCE</div> <div>Documentation protection ISO 16016</div>	DRAWN BY	Date	DRAWING TITLE		DRAWING NUMBER (Doc)			
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	APPROVED BY	Date	PAGE DESCRIPTION		LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
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					NEXT			
					&EC/Genral requirements			



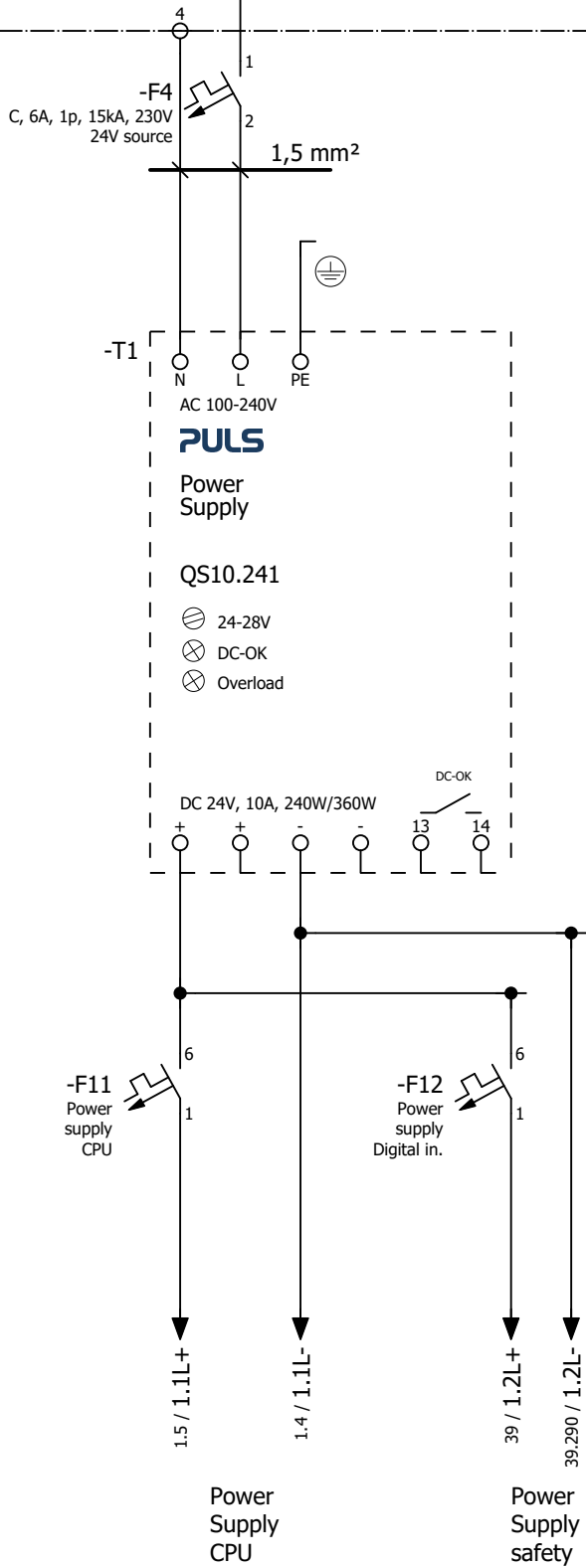
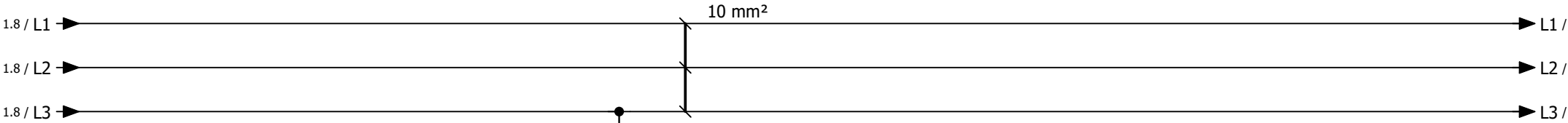
EUROPEAN
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Documentation protection
ISO 16016

DRAWN BY ML	Date 20160907
CHECKED BY	Date
APPROVED BY	Date
ePLAN® electric 8 v2.7.3	DESIGN SITE ESS

DRAWING TITLE Project template ESS	LIFE CYCLE LABEL Preliminary
PAGE DESCRIPTION Power supply incoming feed	SHEET =TS+SSS.DTL.01.A1&FS/1
FUNCTION Power supply in cabinet	NEXT 2

DRAWING NUMBER (Doc) ESS-xxxxxxx	PAGE SIZE A3	PAGE SCALE 1	REV 0.1
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Documentation protection
ISO 16016

DRAWN BY

ML

CHECKED BY

APPROVED BY

ePLAN
electric 8 v2.7.3

Date

20160820

Date

Date

DESIGN SITE

ESS

DRAWING TITLE

Project template ESS

PAGE DESCRIPTION

Power supply 400V

FUNCTION

400V Power supply

DRAWING NUMBER (Doc)

ESS-xxxxxxx

LIFECYCLE LABEL

Preliminary

SHEET

=TS+SSS.DTL.01.A1&FS/2

NEXT

3

PAGE SIZE

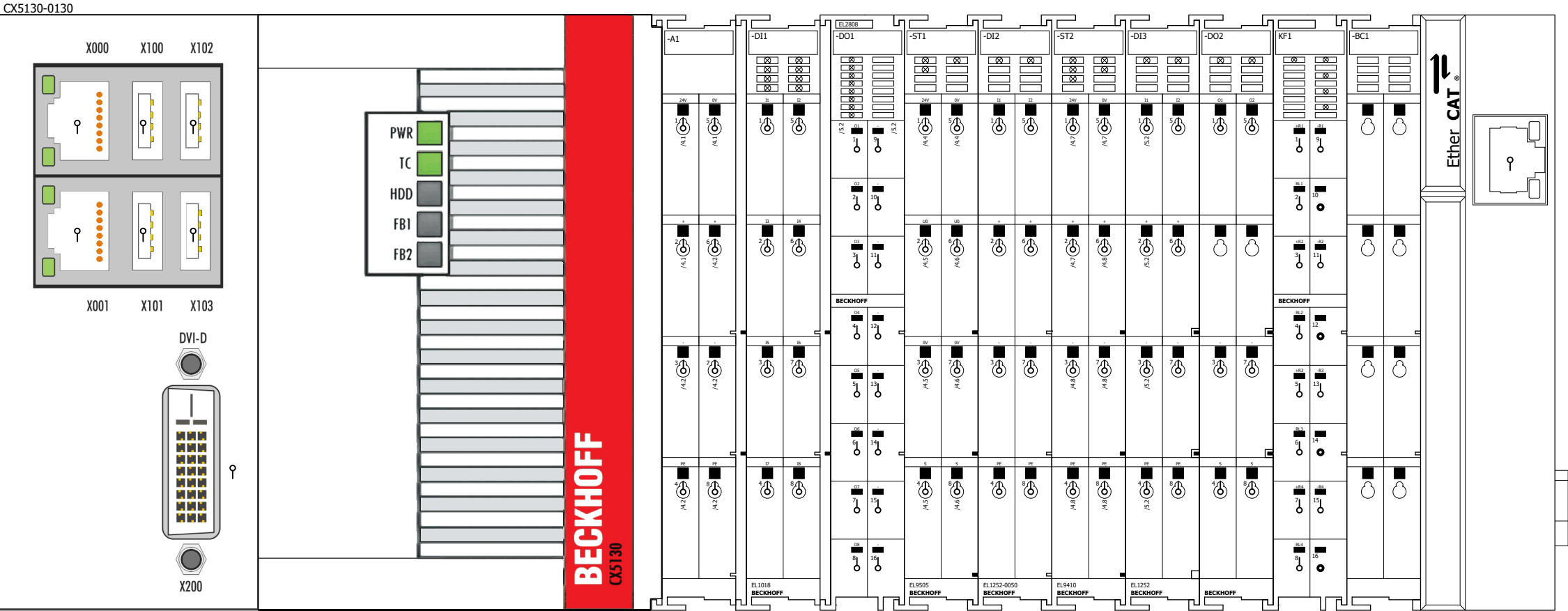
A3

PAGE SCALE



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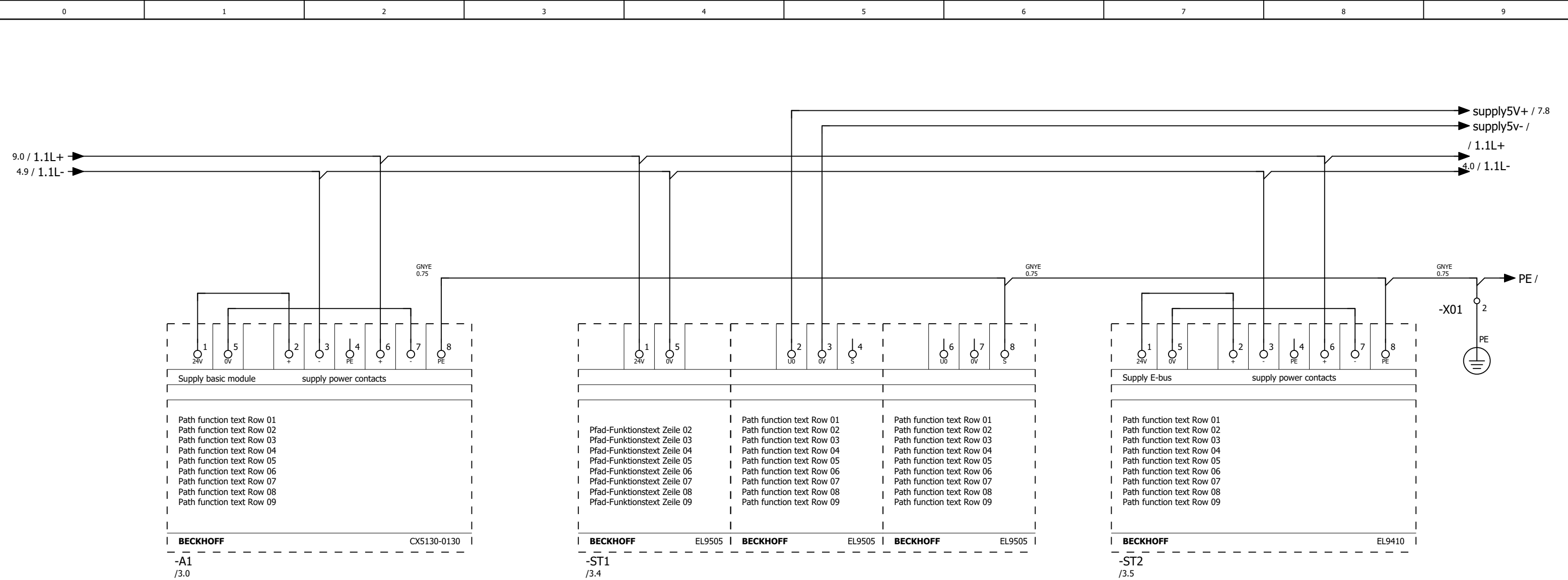
REV

0.1



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	CHECKED BY	Date	PAGE DESCRIPTION PLC Overview		LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 2	REV 0.1
	APPROVED BY	Date	FUNCTION PLC Overview		SHEET =TS+SSS.DTL.01.A1&FS/3			
	 <div>v2.7.3</div>	DESIGN SITE ESS			NEXT 4			



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+ SSS.DTL.01.A1



EUROPEAN
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Documentation protection
ISO 16016

DRAWN BY	Date
CHECKED BY	Date
APPROVED BY	Date
<i>ePLAN</i> <i>electric</i> 8 v2.7.3	DESIGN SITE ESS

DRAWING TITLE
Project template ESS

PAGE DESCRIPTION
PLC Power supply

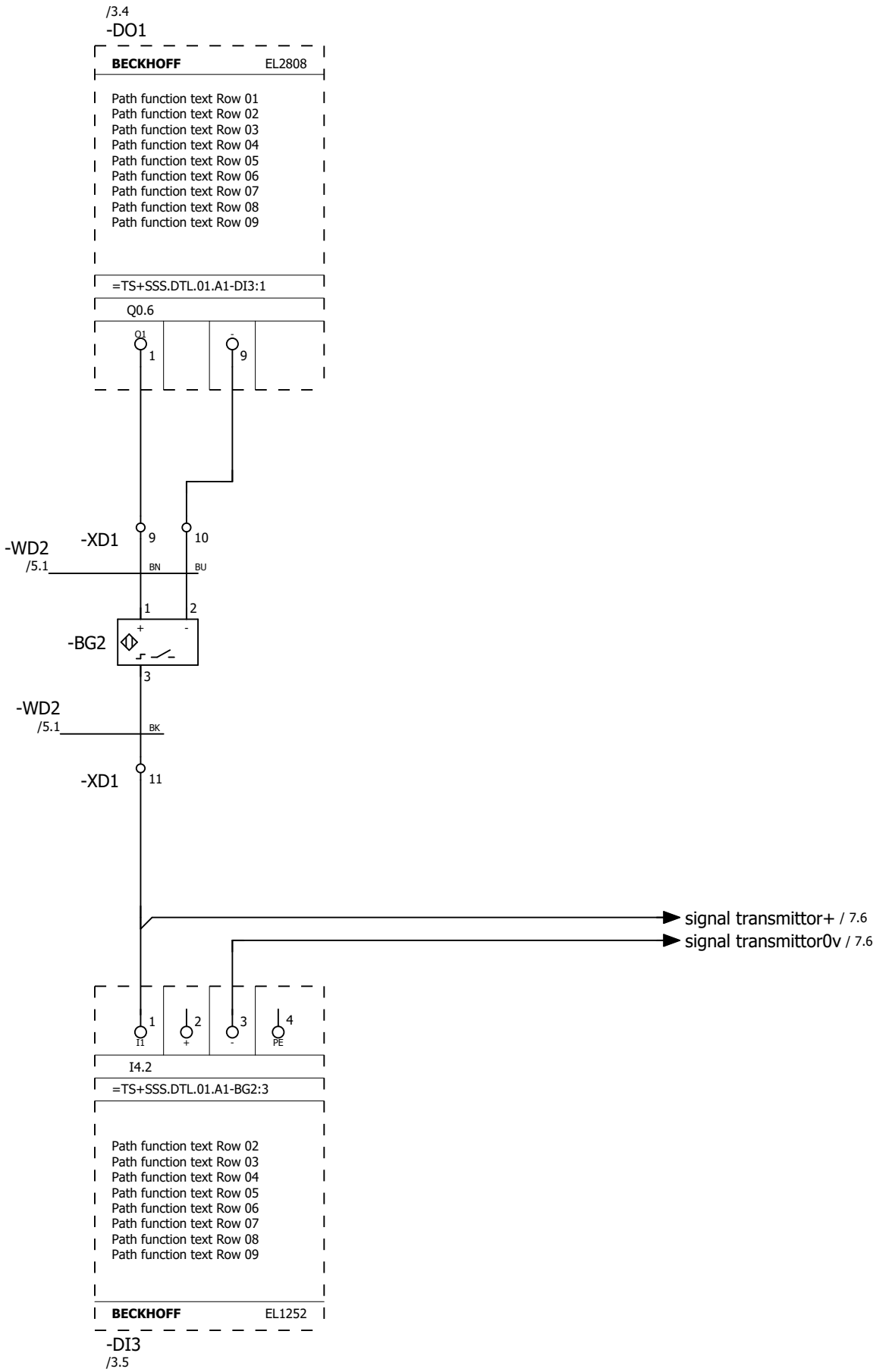
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Digital inputs

DRAWING NUMBER (Doc)
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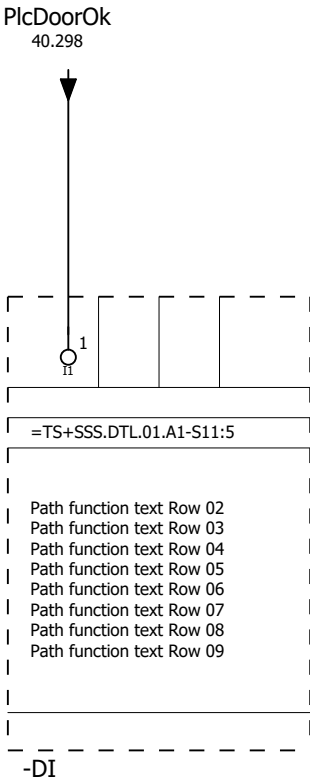
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NEXT
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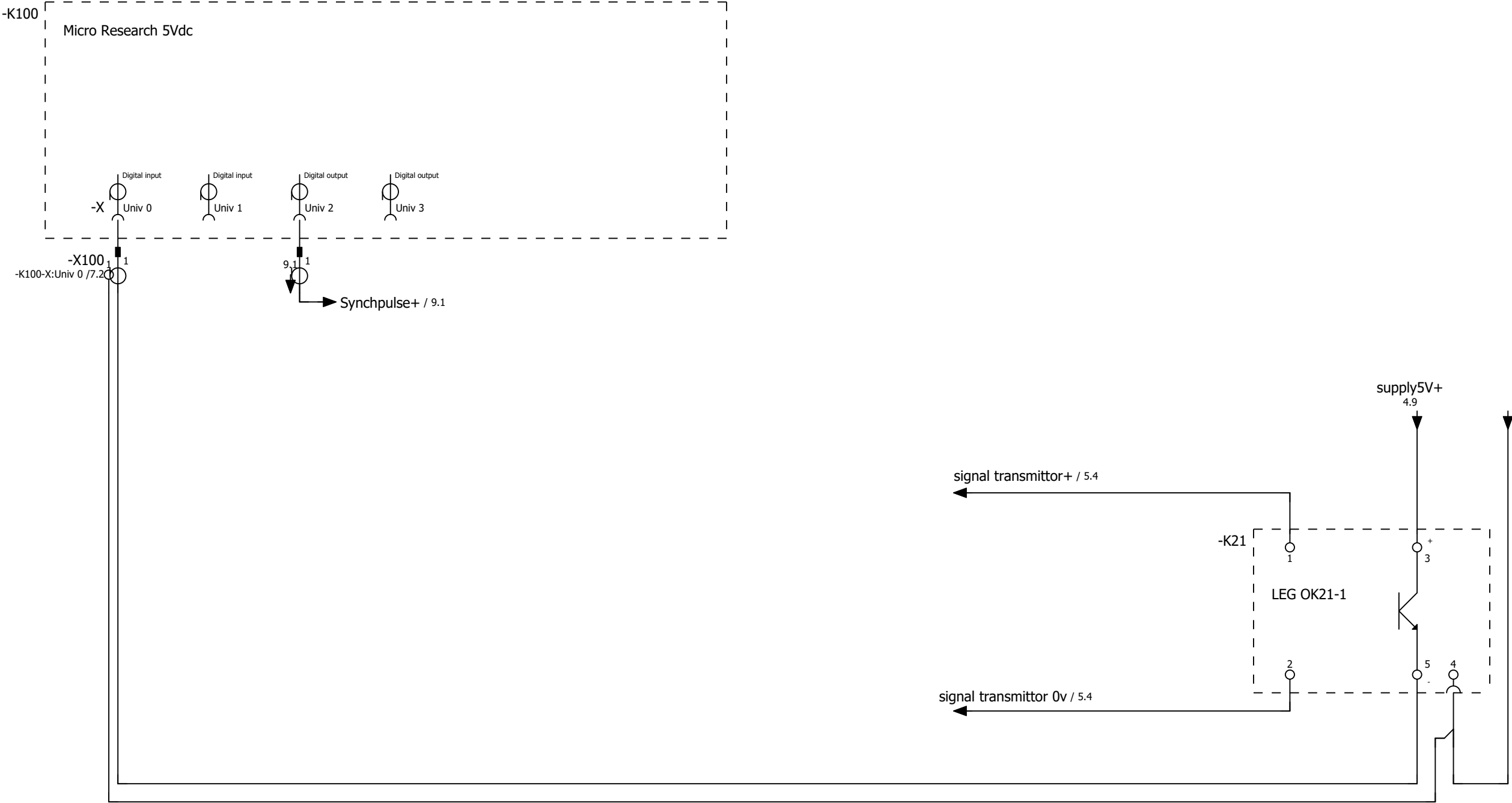


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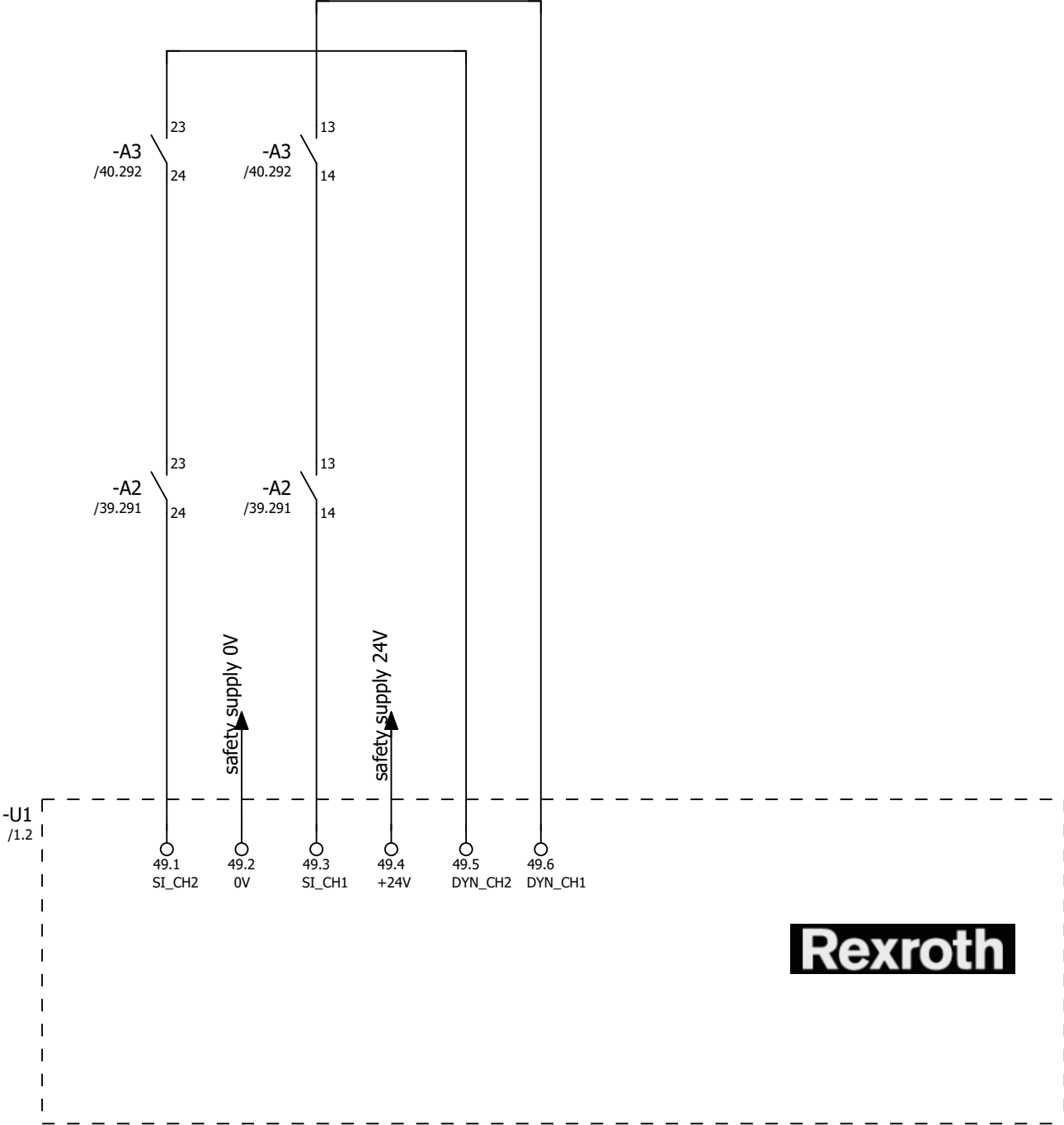


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	CHECKED BY	Date	Project template ESS		ESS-xxxxxxx			
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	 v2.7.3	DESIGN SITE	PLC I/O		Preliminary	A3	1	0.1
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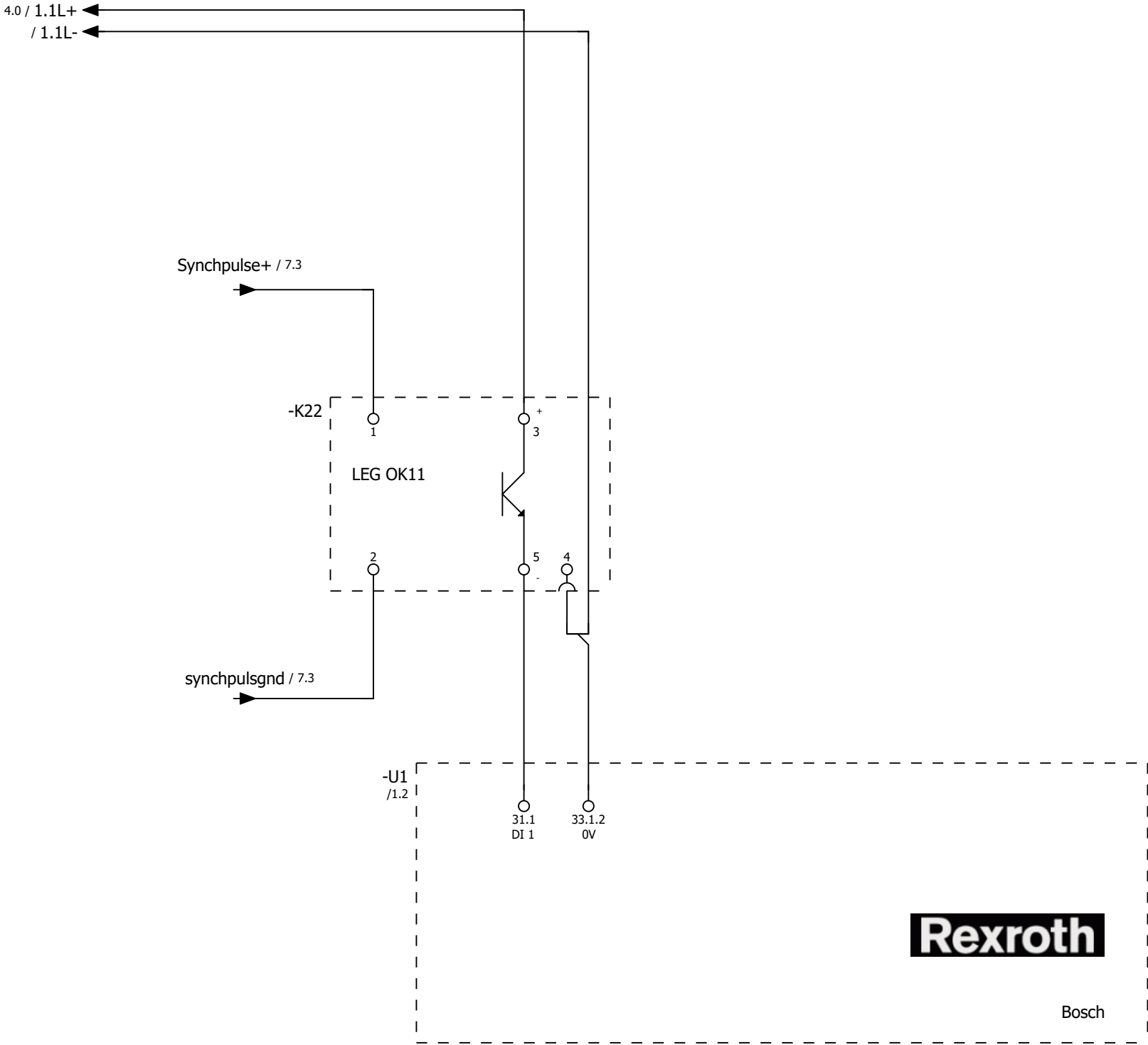


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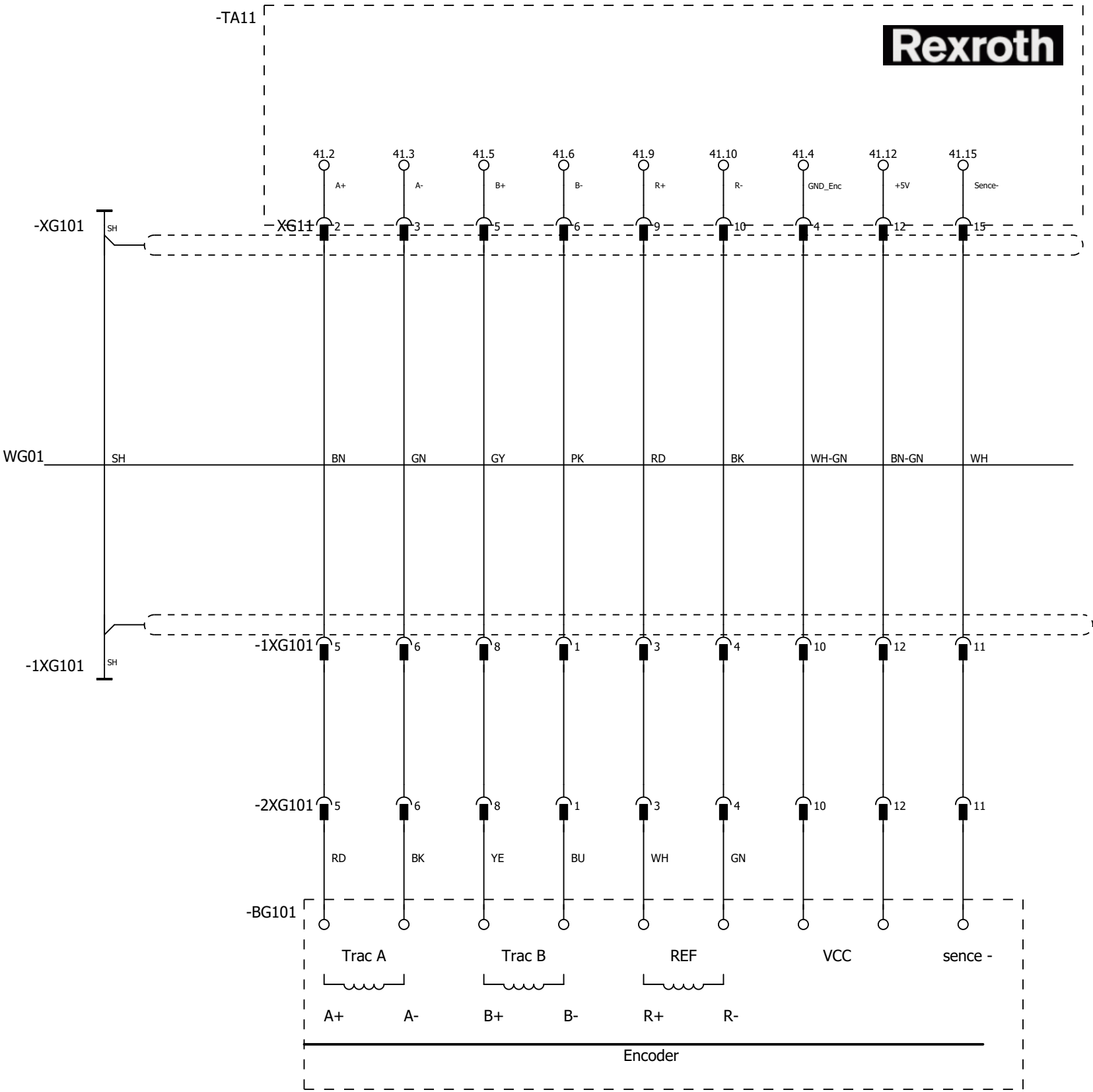
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	CHECKED BY	Date	PAGE DESCRIPTION Drive Controller safety		LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1
	APPROVED BY	Date	FUNCTION Digital outputs Start/Stop pump 1-3		SHEET =TS+SSS.DTL.01.A1&FS/8		
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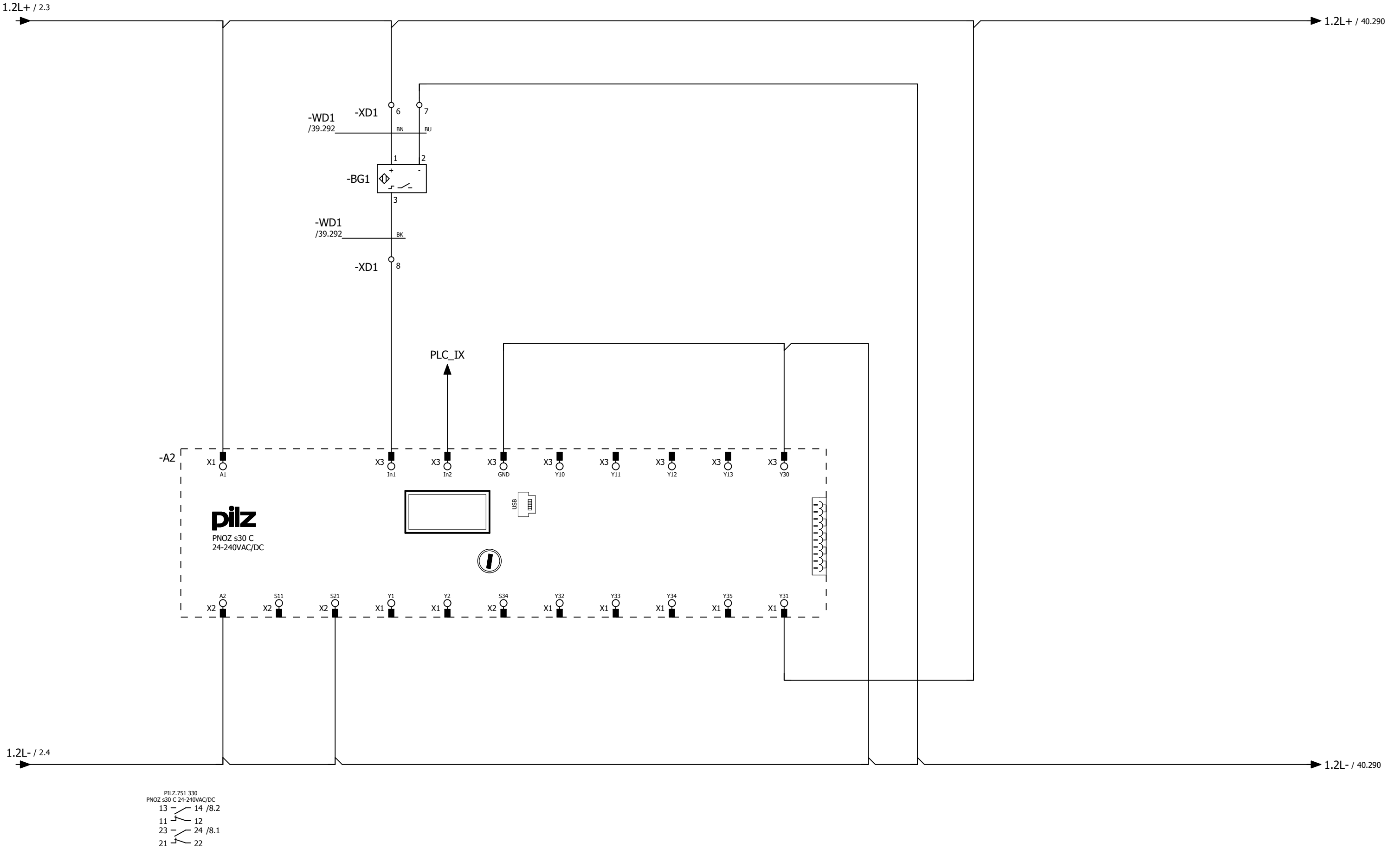


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 <div>EUROPEAN SPALLATION SOURCE</div> <div>Documentation protection ISO 16016</div>	DRAWN BY	Date	DRAWING TITLE		DRAWING NUMBER (Doc)			
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	APPROVED BY	Date	PAGE DESCRIPTION		LIFECYCLE LABEL	PAGE SIZE	PAGE SCALE	REV
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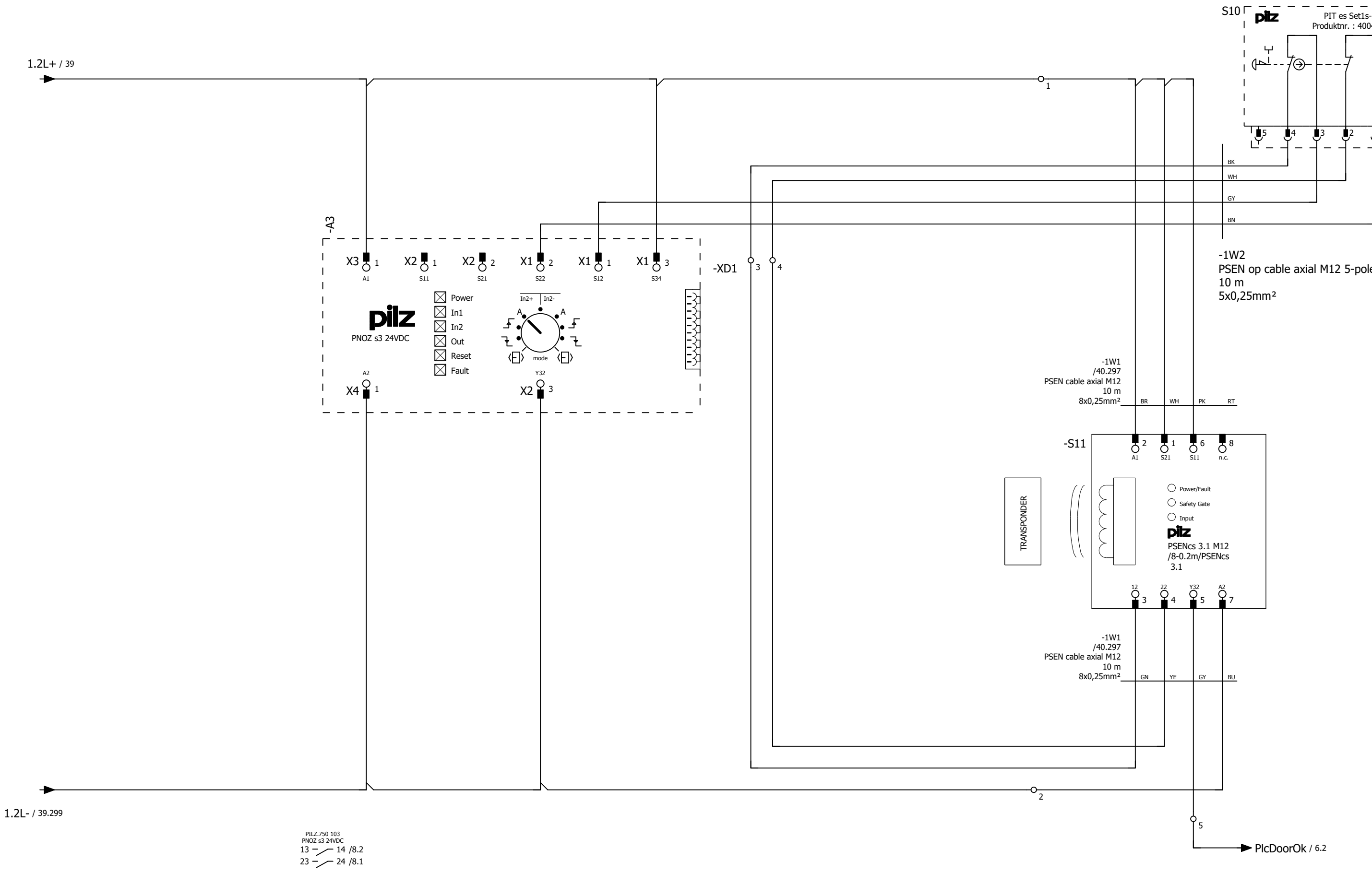


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+ SSS.DTL.01.A1

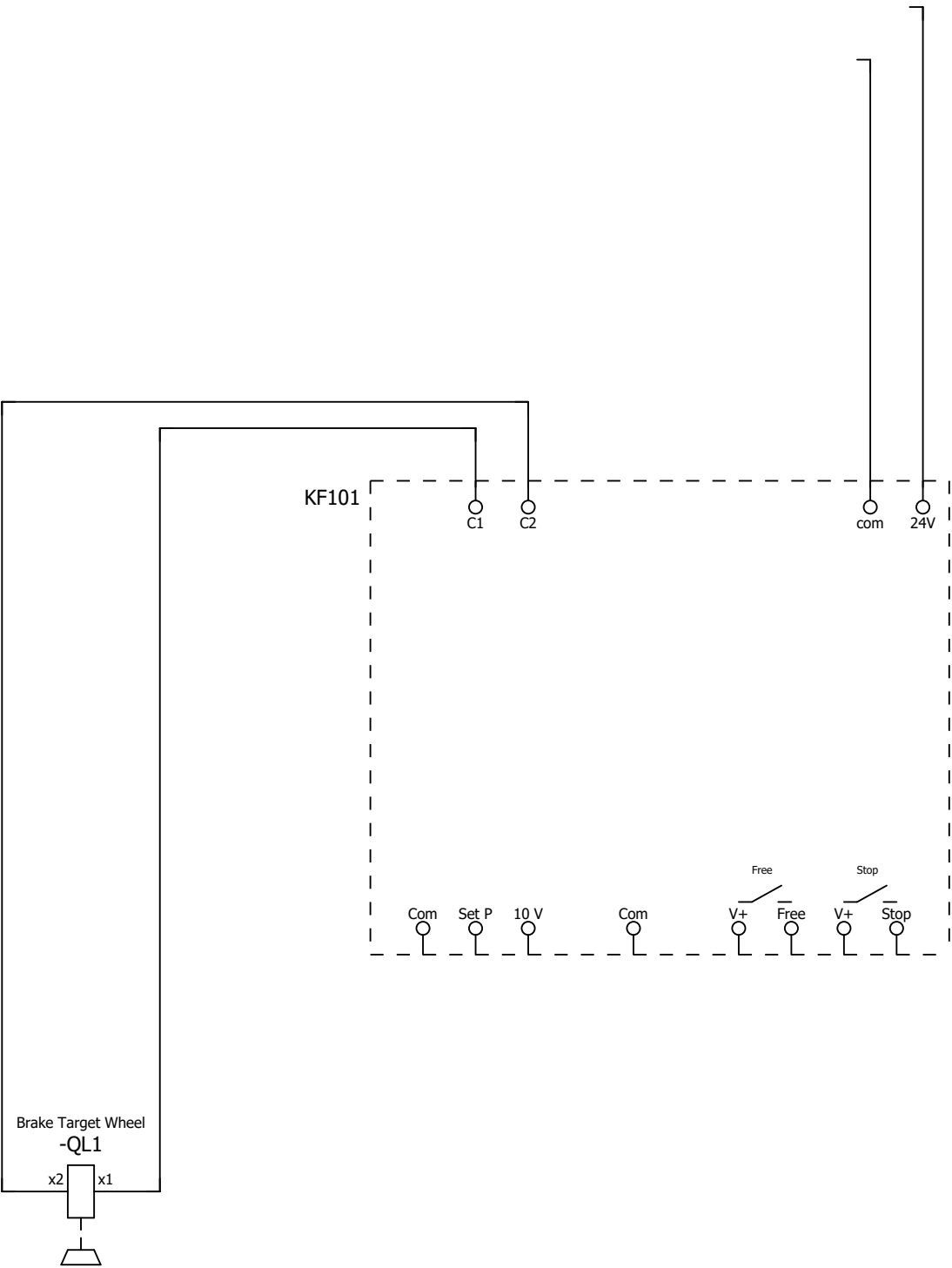


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+ SSS.DTL.01.A1

 <div>EUROPEAN SPALLATION SOURCE</div> <div>Documentation protection ISO 16016</div>	DRAWING TITLE Project template ESS		DRAWING NUMBER		
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	LIFECYCLE LABEL Preliminary		NEXT 40		
	 v2.7.3	PAGE DESCRIPTION Safety overspeed	DRAWN BY Markuslarsson	REV 0.1	LAST CHANGE 11/15/2018



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+ SSS.DTL.01.A1

 <div>EUROPEAN SPALLATION SOURCE</div> <div>Documentation protection ISO 16016</div>	DRAWN BY ML	Date 20180615	DRAWING TITLE Project template ESS		DRAWING NUMBER (Doc) ESS-xxxxxxx		
	CHECKED BY	Date	PAGE DESCRIPTION Brake Target Wheel		LIFECYCLE LABEL Preliminary	PAGE SIZE A3	PAGE SCALE 1
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Fuse Table

ESS_Fuse_table_ver1

Device tag	Function	Technical characteristics	Type number	Designation	Sheet
-F2	Spare	C, 6A, 1p, 15kA, 230V	FAZ-C6/1	MCB, C-Curve, 6A, 1p	&FS/1.7
-F3	=	C, 6A, 1p, 15kA, 230V	FAZ-C6/1	MCB, C-Curve, 6A, 1p	&FS/1.8
-F4	24V source	C, 6A, 1p, 15kA, 230V	FAZ-C6/1	MCB, C-Curve, 6A, 1p	&FS/2.3
-F11	Power supply CPU		FAZ-C6/1	MCB, C-Curve, 6A, 1p	&FS/2.2
-F12	Power supply Digital in.		FAZ-C6/1	MCB, C-Curve, 6A, 1p	&FS/2.3
-FB1		16A, 30mA, Typ AC	FI-16/2/003	RCCB, type AC, 16A, 2p, 30mA	&FS/1.8

= TS
+ SSS.DTL.01.A1

Terminal diagram

ESS_Treminal_diagram_ver1


Strip =TS+SSS.DTL.01.A1-XD1										Cable name	-1W2	-1WD1	-1WD2		Page / column
										Cable type	PSEN op cable axial M12 5-pole				
Function text															
															&FS/40.295
															&FS/40.295
															&FS/39.292
															&FS/39.293

Cable overview

ESS_Cable_overview_ver1


Cable designation	from	to	Cable type	Condctrs/ Diameters	Used Condctrs	Length	Function text
=TS+SSS.DTL.01.A1-1W1	=+	=TS+SSS.DTL.01.A1-S11	PSEN cable axial M12	8x0,25mm² mm²	7	10	
	=TS+SSS.DTL.01.A1-S11						
	=TS+SSS.DTL.01.A1-XD1						
=TS+SSS.DTL.01.A1-1W2	=TS+SSS.DTL.01.A1-?S1	=TS+SSS.DTL.01.A1-XD1	PSEN op cable axial M12 5-pole	5x0,25mm² mm²	4	10	
		=TS+SSS.DTL.01.A1-A3					
=TS+SSS.DTL.01.A1-WD1	=TS+SSS.DTL.01.A1-XD1	=TS+SSS.DTL.01.A1-BG1			3		
=TS+SSS.DTL.01.A1-WD2	=TS+SSS.DTL.01.A1-XD1	=TS+SSS.DTL.01.A1-BG2			3		
=TS+SSS.DTL.01.A1-WG01	=TS+SSS.DTL.01.A1-1XG101	=TS+SSS.DTL.01.A1-TA11-XG11			3		
		=TS+SSS.DTL.01.A1-XG101					

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Cable diagram

ESS_Cable_diagram_ver1

Cable name: =TS+SSS.DTL.01.A1-1W1			Cable typePSEN cable axial M12					
Function text:			No. of conductors8			Cross-section0,25mm²		Cable length10
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
				WS				
				BR				
				GN				
				GE				
				GR				
				RS				
				BL				
				RT				
	&FS/40.297		1	BR	-S11	2	&FS/40.298	
	&FS/40.298	-S11	1	BR	-S11	2	&FS/40.298	
	&FS/40.297		2	BU	-S11	7	&FS/40.298	
	&FS/40.295	-XD1	3	GN	-S11	3	&FS/40.298	
	&FS/40.298		5	GY	-S11	5	&FS/40.298	
	&FS/40.298	-S11	1	WH	-S11	6	&FS/40.298	
	&FS/40.295	-XD1	4	YE	-S11	4	&FS/40.298	


Cable name: =TS+SSS.DTL.01.A1-1W2			Cable typePSEN op cable axial M12 5-pole					
Function text:			No. of conductors5			Cross-section0,25mm²		Cable length10
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
				BR				
				WS				
				BL				
				SW				
				GR				
	&FS/40.299	-?S1	4	BK	-XD1	3	&FS/40.295	
	&FS/40.299	-?S1	1	BN	-A3	X1.2	&FS/40.294	
	&FS/40.299	-?S1	3	GY	-A3	X1.1	&FS/40.294	

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Cable diagram

ESS_Cable_diagram_ver1


Cable name: =TS+SSS.DTL.01.A1-1W2			Cable typePSEN op cable axial M12 5-pole					
Function text:			No. of conductors5			Cross-section0,25mm²		Cable length10
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
	&FS/40.299	-?S1	2	WH	-XD1	4	&FS/40.295	

Cable name: =TS+SSS.DTL.01.A1-WD1			Cable type					
Function text:			No. of conductors			Cross-section		Cable length
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
	&FS/39.292	-XD1	8	BK	-BG1	3	&FS/39.292	
	&FS/39.292	-XD1	6	BN	-BG1	1	&FS/39.292	
	&FS/39.293	-XD1	7	BU	-BG1	2	&FS/39.292	

Cable name: =TS+SSS.DTL.01.A1-WD2			Cable type					
Function text:Path function text Row 01 Path function text Row 02 Path function text Row 03 Path function text Row 04 Path function text Row 05 Path function text Row 06 Path function text Row 07 Path function text Row 08 Path function text Row 09			No. of conductors			Cross-section		Cable length
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
Path function text Row 01 Path function text Row 02 Path function text Row 03 Path function text Row 04 Path function text Row 05 Path function text Row 06 Path function text Row 07 Path function text Row 08 Path function text Row 09	&FS/5.2	-XD1	11	BK	-BG2	3	&FS/5.2	Path function text Row 01 Path function text Row 02 Path function text Row 03 Path function text Row 04 Path function text Row 05 Path function text Row 06 Path function text Row 07 Path function text Row 08 Path function text Row 09
=	&FS/5.2	-XD1	9	BN	-BG2	1	&FS/5.2	=
Path function text Row 02 Path function text Row 03 Path function text Row 04 Path function text Row 05 Path function text Row 06 Path function text Row 07 Path function text Row 08 Path function text Row 09	&FS/5.2	-XD1	10	BU	-BG2	2	&FS/5.2	=

Cable name: =TS+SSS.DTL.01.A1-WG01			Cable type					
Function text:			No. of conductors			Cross-section		Cable length
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
	&FS/10.2	-1XG101		SH	-XG101		&FS/10.2	

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Cable diagram

ESS_Cable_diagram_ver1

Cable name: =TS+SSS.DTL.01.A1-WG01			Cable type					
Function text:			No. of conductors			Cross-section		Cable length
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
	&FS/10.6	-1XG101	11	WH	-TA11-XG11	15	&FS/10.6	
	&FS/10.5	-1XG101	10	WH-GN	-TA11-XG11	4	&FS/10.5	

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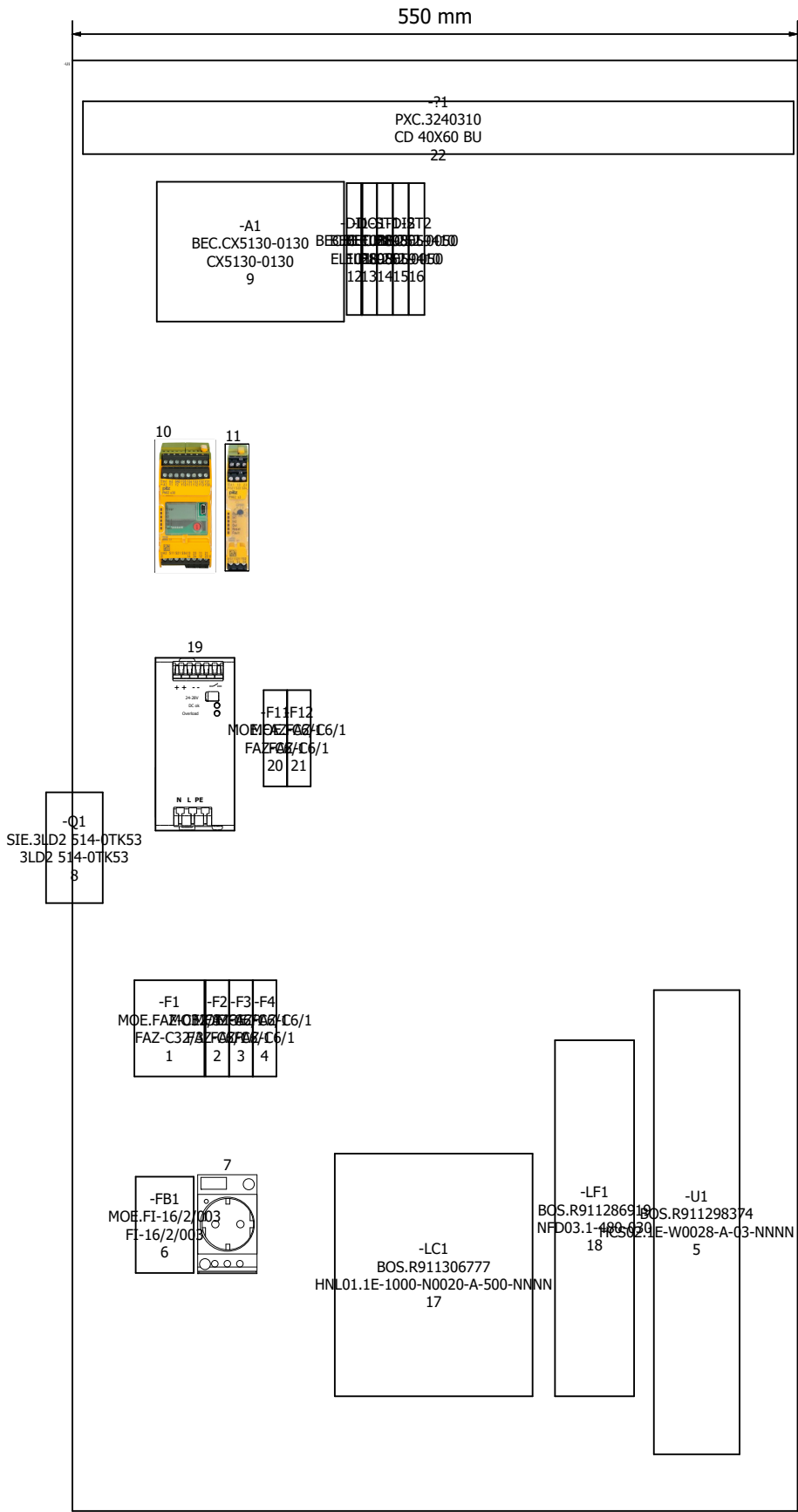
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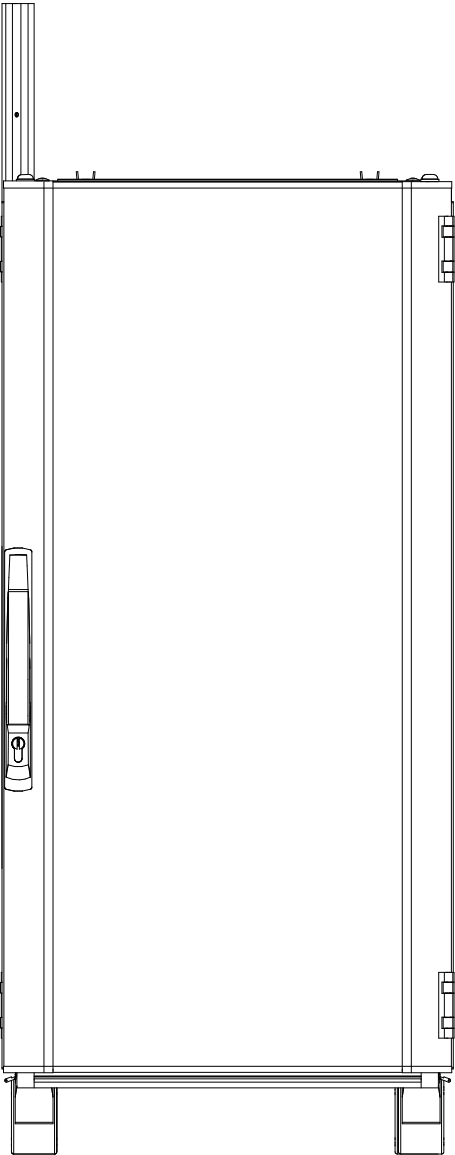
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