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Global Systems Engineering Centre

Phone: ++49 (0)711 / 347 - 0
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Plant designation 8118454 CMCB-D1-CC-S1 (PLd)
(8220233_EN 2024-12a)

Customer order no.

Festo order number

Project no.



Customer

Name

Plant

Street

Code postal: / location

Type of project

Responsible for project

Project name 8118454_CMCB-D1-CC-S1

Created 30.07.2019 / smar

Edit 07.01.2025 / smar

Approved /
/

Number of pages 61

FESTO assumes no warranty and liability for any changes to this documentation made by the customer. The circuit diagrams were created on the EPLAN Electric P8 and EPLAN Fluid CAE systems. Changes may only be made using the CAE systems and the original parameters

System	Mounting location	Document name	Page	Page description	Revision	Date	Edited by	
		&MAA	1	Title page /cover sheet		06.12.2022	smar	
		&MAB	1	Table of contents		17.12.2024	smar	
		&MAB	2	Table of contents		17.12.2024	smar	
		&MAB	3	Table of contents		17.12.2024	smar	
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		&MPC	1.1	Summarized parts list		17.12.2024	smar	
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		&MTL	1	Cable gland		09.01.2023	smar	
		&EFA	1	Connection list : 001 - 068		17.12.2024	smar	
	A1	EXT	&EFA	1	Cable overview		17.12.2024	smar
		EXT	&EFA	2	Plug overview		25.07.2024	SMAR
EXT		&EMA	1	Plug diagram =A1+EXT-MM2-BG1-WD1-XD1		17.12.2024	smar	
EXT		&EMA	2	Plug diagram =A1+EXT-MM2-BG2-WD1-XD1		17.12.2024	smar	
EXT		&EMA	3	Plug diagram =A1+EXT-WD1-XD1		17.12.2024	smar	
EXT		&EMA	4	Plug diagram =A1+EXT-WD1.1-XD1		17.12.2024	smar	
EXT		&EMA	5	Plug diagram =A1+EXT-WD2-XD1		17.12.2024	smar	
EXT		&EMA	6	Plug diagram =A1+EXT-WD2.1-XD1		17.12.2024	smar	
EXT		&EMA	7	Plug diagram =A1+EXT-WD6-XD1		17.12.2024	smar	
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	CAB	&EFS	9	Controller CAN / Ethernet Interface		17.12.2024	smar		
	CAB	&EFS	10	Controller inputs safety signals		17.12.2024	smar		
	CAB	&EFS	11	Controller inputs X2 control panel		17.12.2024	smar		
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	CAB	&EFS	14	Safety switching device		16.12.2024	smar		
	CAB	&EFS	15	?????		17.12.2024	smar		
	CAB	&EFS	16	VPCB shut-off valves		17.12.2024	smar		
	CAB	&EFS	17	VPCB switching position sensing		16.12.2024	smar		
	CAB	&EFS	18	VPCB CAN interface		16.12.2024	smar		
	CAB	&EFS	19	reference sensor		17.12.2024	smar		
	CAB	&EFS	20	Sensor interface HTL/TTL		16.12.2024	smar		
CAB	&EFS	21	Sensor interface VPCB		16.12.2024	smar			
CAB	&EFS	22	Sensor interface Sensor 1 / Sensor 2		16.12.2024	smar			
CAB	&EMA	1	Terminal diagram =A1+CAB-XD0		25.07.2024	SMAR			
CAB	&EMA	2	Terminal diagram =A1+CAB-XD5		17.12.2024	smar			
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IN A3 07.01.2025

Structure identifier overview

Full designation	Labeling	Structure description
+O1	Location designation	Mounting location 1
+EXT	Location designation	External
+MAKRO_ALLGEMEIN	Location designation	
+CAB	Location designation	Control cabinet / Mounting plate
+EXT.EXT	Location designation	
+A1	Location designation	

Quantity	Order number	Type number	Designation	Σ Length [m]	Manufacturer
1	43936	KEL-DPU 24 16 gy	KEL-DPU 2416 gy / Cable entry plate, screw assembly / pluggable, IP68	0,00	Icotek GmbH
1	4160510	Multi-Standard SC 2.1 1X2,5 YE	Power and control cables	0,50	U.I. Lapp GmbH
2	4160502	Multi-Standard SC 2.1 1X2,5 BU	Power and control cables	1,00	U.I. Lapp GmbH
1	4160500	Multi-Standard SC 2.1 1X2,5 GNYE	Power and control cables	0,50	U.I. Lapp GmbH
1	4160301	Multi-Standard SC 2.1 1X1 BK	Power and control cables	0,50	U.I. Lapp GmbH
1	4160302	Multi-Standard SC 2.1 1X1 BU	Power and control cables	0,50	U.I. Lapp GmbH
33	4160214	Multi-Standard SC 2.1 1X0,75 DBU	Power and control cables	16,50	U.I. Lapp GmbH
1	4160501	Multi-Standard SC 2.1 1X2,5 BK	Power and control cables	0,50	U.I. Lapp GmbH
2	4160200	Multi-Standard SC 2.1 1X0,75 GNYE	Power and control cables	1,00	U.I. Lapp GmbH
1	2170261	UNITRONIC® BUS CAN UL/CSA	Cables for bus system	0,50	U.I. Lapp GmbH
1	2172372	IE-6A-RJ45-1-P-4-26-7-OE	Industrial Ethernet Patchcord P RJ45 on free conductor end	1,00	U.I. Lapp GmbH
1	0015034	ÖLFLEX® 150	ÖLFLEX 150 QUATTRO 34G0,5	5,50	U.I. Lapp GmbH
1	2171115	IE-5-RJ45-1-P-2-26-7-RJ45	Industrial Ethernet Patchcord RJ45-RJ45 P	1,00	U.I. Lapp GmbH
1	751330	PNOZ s30 C 24-240VACDC 2 n/o 2 n/c	PNOZsigma speed monitor 2n/o 2n/c	0,00	Pilz GmbH & Co. KG
2	2900299	PLC-RPT- 24DC/21	Relay module	0,00	Phoenix Contact
1	0801733	NS 35/ 7,5 PERF 2000MM	DIN rail perforated	0,50	Phoenix Contact
4	3022276	CLIPFIX 35-5	End clamp	0,00	Phoenix Contact
5	0828734	UCT-TM 5	Marker for terminal blocks	0,00	Phoenix Contact
2	3209510	PT 2,5	Feed-through terminal block	0,00	Phoenix Contact
1	3030417	D-ST 2,5	End cover	0,00	Phoenix Contact
1	3209536	PT 2,5-PE	Ground modular terminal block	0,00	Phoenix Contact
10	3213014	FBS 2-3,5	Plug-in bridge	0,00	Phoenix Contact
1	3214699	D-PTTBS 1,5/S	End cover	0,00	Phoenix Contact
19	3214657	PTTBS 1,5/S	Double-level terminal block	0,00	Phoenix Contact
36	0829484	UCT-TM 3,5	Marker for terminal blocks	0,00	Phoenix Contact
2	3214673	PTTBS 1,5/S-PE	Protective conductor double-level terminal block	0,00	Phoenix Contact
1	1034000	AX.1034000	Compact enclosure AX	0,00	Rittal
1	2459500	SZ.2459500	Pressure relief stoppers	0,00	Rittal

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Summarized parts list

Quantity	Order number	Type number	Designation	Σ Length [m]	Manufacturer
1	2508010	SZ.2508010	Wall mounting bracket	0,00	Rittal
1	2482730	SZ.2482730	RJ45 installation module	0,00	Rittal
1	136-9104	RS Pro	Cable duct 40x30	1,20	RS Components GmbH
1	5SY4210-6	5SY4210-6	CIRCUIT BREAKER 10KA 2POL B10	0,00	Siemens AG
1	3LD2003-1TL51	3LD2003-1TL51	Switch-disconnector 3LD, main switch	0,00	Siemens AG

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Item parts list

Reference mark	Quantity	Order number	Designation	X-length	Manufacturer	Identcode 1
Placement		Type number		Length [m]		Identcode 2
-WD1	1	30945	Plug socket with cable		Festo	
=A1+CAB&EFS/16.2		KME-1-24DC-5-LED		5 m		
-WD1.1	1	8078224	Connecting cable		Festo	
=A1+CAB&EFS/17.1		NEBA-M8G3-U-5-N-LE3		5 m		
-WD2	1	30945	Plug socket with cable		Festo	
=A1+CAB&EFS/16.3		KME-1-24DC-5-LED		5 m		
-WD2.1	1	8078224	Connecting cable		Festo	
=A1+CAB&EFS/17.3		NEBA-M8G3-U-5-N-LE3		5 m		
-WD6	1	8078224	Connecting cable		Festo	
=A1+CAB&EFS/19.1		NEBA-M8G3-U-5-N-LE3		5 m		
-WD7	1	542257	Plug socket with cable		Festo	
=A1+CAB&EFS/20.2		NEBU-M12W8-K-5-N-LE8		5 m		
-WD8	1	8078240	Connecting cable		Festo	
=A1+CAB&EFS/20.5		NEBA-M12G5-U-5-N-LE4		5 m		
=A1+CAB&EFS/1.2	1	4160510	Power and control cables		U.I. Lapp GmbH	
		Multi-Standard SC 2.1 1X2,5 YE		0,5 m		
=A1+CAB&EFS/1.2	2	4160502	Power and control cables		U.I. Lapp GmbH	
		Multi-Standard SC 2.1 1X2,5 BU		0,5 m		
=A1+CAB&EFS/1.3	1	4160500	Power and control cables		U.I. Lapp GmbH	
		Multi-Standard SC 2.1 1X2,5 GNYE		0,5 m		
=A1+CAB&EFS/2.4	1	4160301	Power and control cables		U.I. Lapp GmbH	
		Multi-Standard SC 2.1 1X1 BK		0,5 m		
=A1+CAB&EFS/2.4	1	4160302	Power and control cables		U.I. Lapp GmbH	
		Multi-Standard SC 2.1 1X1 BU		0,5 m		
=A1+CAB&EFS/2.4	33	4160214	Power and control cables		U.I. Lapp GmbH	
		Multi-Standard SC 2.1 1X0,75 DBU		0,5 m		
=A1+CAB&EFS/2.1	1	4160501	Power and control cables		U.I. Lapp GmbH	
		Multi-Standard SC 2.1 1X2,5 BK		0,5 m		
=A1+CAB&EFS/2.4	2	4160200	Power and control cables		U.I. Lapp GmbH	
		Multi-Standard SC 2.1 1X0,75 GNYE		0,5 m		

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Project status		xxx		8118454 CMCB-D1-CC-S1 (PLd) (8220233_EN 2024-12a)	FESTO	Item parts list	EN &MPC	
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		Edit by	17.12.2024				+	
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Item parts list

Reference mark	Quantity	Order number	Designation	X-length	Manufacturer	Identcode 1
Placement		Type number		Length [m]		Identcode 2
-BG1	1	8063974	Position transmitter		Festo	
=A1+CAB&EFS/15.3		SDAS-MHS-M40-1L-PNLK-PN-E-0.3-M8				
-FC1	1	5SY4210-6	CIRCUIT BREAKER 10KA 2POL B10		Siemens AG	
=A1+CAB&EFS/2.4		5SY4210-6				
-KF2	1	751330	PNOZsigma speed monitor 2n/o 2n/c		Pilz GmbH & Co. KG	
=A1+CAB&EFS/14.2		PNOZ s30 C 24-240VACDC 2 n/o 2 n/c				
-KF3	1	2900299	Relay module		Phoenix Contact	
=A1+CAB&EFS/17.5		PLC-RPT- 24DC/21				
-KF4	1	2900299	Relay module		Phoenix Contact	
=A1+CAB&EFS/17.7		PLC-RPT- 24DC/21				
-KF101	1	8207225	Controls		Festo	
=A1+CAB&EFS/5.0		CECC-LK-BA				
-KF101	2	575307	Plug		Festo	
=A1+CAB&EFS/5.0		NECC-L2G24-C1				
-QB1	1	3LD2003-1TL51	Switch-disconnector 3LD, main switch		Siemens AG	
=A1+CAB&EFS/1.2		3LD2003-1TL51				
-TB1	1	8149580	Power supply unit		Festo	
=A1+CAB&EFS/2.3		CACN-3A-1-5-G2				
-UC1	1	1034000	Compact enclosure AX		Rittal	
=A1+CAB&EFS/1.0		AX.1034000				
-UC1	1	2459500	Pressure relief stoppers		Rittal	
=A1+CAB&EFS/1.0		SZ.2459500				
-UC1	1	2508010	Wall mounting bracket		Rittal	
=A1+CAB&EFS/1.0		SZ.2508010				
-UC1	1	4572044	Ground strap		Festo	
=A1+CAB&EFS/1.0		GND M5-M8 200MM 10QMM				
-UC1	1	4592251	Ground strap		Festo	
=A1+CAB&EFS/1.0		GND M5-M8 300MM 10QMM				
-UC1	1	43936	KEL-DPU 2416 gy / Cable entry plate, screw assembly / pluggable, IP68		Icotek GmbH	
=A1+CAB&EFS/1.0		KEL-DPU 24 16 gy				

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Item parts list

Reference mark	Quantity	Order number	Designation	X-length	Manufacturer	Identcode 1
Placement		Type number		Length [m]		Identcode 2
-UC1	1	136-9104	Cable duct 40x30		RS Components GmbH	
=A1+CAB&EFS/1.0		RS Pro		1,2 m		
-UC1	1	0801733	DIN rail perforated		Phoenix Contact	
=A1+CAB&EFS/1.0		NS 35/ 7,5 PERF 2000MM		0,5 m		
-UC1	14	268738	Kunststoffniete		Festo	
=A1+CAB&EFS/1.0		635-001/KST				
-WD3	1	8074191	Connecting cable		Festo	
=A1+CAB&EFS/9.1		NEBC-M12G5-ES-5-LE5-CO		5 m		
-WD4	1	2170261	Cables for bus system		U.I. Lapp GmbH	
=A1+CAB&EFS/9.2		UNITRONIC® BUS CAN UL/CSA		0,5 m		
-WD5	1	2172372	Industrial Ethernet Patchcord P RJ45 on free conductor end		U.I. Lapp GmbH	
=A1+CAB&EFS/14.8		IE-6A-RJ45-1-P-4-26-7-OE		1 m		
-WD9	1	0015034	ÖLFLEX 150 QUATTRO 34G0,5		U.I. Lapp GmbH	
=A1+CAB&EFS/3.6		ÖLFLEX® 150		5,5 m		
-WD10	1	2171115	Industrial Ethernet Patchcord RJ45-RJ45 P		U.I. Lapp GmbH	
=A1+CAB&EFS/9.7		IE-5-RJ45-1-P-2-26-7-RJ45		1 m		
-WD11	1	8078228	Connecting cable		Festo	
=A1+CAB&EFS/15.4		NEBA-M8G4-U-5-N-LE4		5 m		
-XD6	1	576031	Plug		Festo	
=A1+CAB&EFS/9.0		NECC-S1G9-C2-M				
-XD9	1	2482730	RJ45 installation module		Rittal	
=A1+CAB&EFS/9.7		SZ.2482730				
=A1+CAB-XD10	1	19430060341	Housing		HARTING Deutschland GmbH & Co. KG	
		Han-Eco 6B-AGG mit LB-mit Kappe				
=A1+CAB-XD10	1	09140060361	Accessories		HARTING Deutschland GmbH & Co. KG	
		Han Gelenkrahmen plus, für 2 Module A-B				
=A1+CAB-XD10-XD1	1	09140173001	Modules		HARTING Deutschland GmbH & Co. KG	
		Han DDD module, crimp male				
=A1+CAB-XD10-XD1	17	09150006123	Contacts		HARTING Deutschland GmbH & Co. KG	
		R 15-STI-C-0,5 QMM (AU)				

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Project status		xxx	
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(8220233_EN 2024-12a)

FESTO

Item parts list

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Item parts list

Reference mark	Quantity	Order number	Designation	X-length	Manufacturer	Identcode 1
Placement		Type number		Length [m]		Identcode 2
=A1+CAB-XD10-XD2	1	09140173101	Modules		HARTING Deutschland GmbH & Co. KG	
		Han DDD module, crimp female				
=A1+CAB-XD10-XD2	17	09150006223	Contacts		HARTING Deutschland GmbH & Co. KG	
		R 15-BU-C-0,5 QMM (AU)				
=A1+CAB-XD11	1	09140060371	Accessories		HARTING Deutschland GmbH & Co. KG	
		Han Gelenkrahmen plus, für 2 Module a-b				
=A1+CAB-XD11	1	19431060447	Housing		HARTING Deutschland GmbH & Co. KG	
		Han-Eco 6B-GG-für LB-M32-m. KV				
=A1+CAB-XD11-XD1	1	09140173001	Modules		HARTING Deutschland GmbH & Co. KG	
		Han DDD module, crimp male				
=A1+CAB-XD11-XD1	17	09150006123	Contacts		HARTING Deutschland GmbH & Co. KG	
		R 15-STI-C-0,5 QMM (AU)				
=A1+CAB-XD11-XD2	1	09140173101	Modules		HARTING Deutschland GmbH & Co. KG	
		Han DDD module, crimp female				
=A1+CAB-XD11-XD2	17	09150006223	Contacts		HARTING Deutschland GmbH & Co. KG	
		R 15-BU-C-0,5 QMM (AU)				

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Project status

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Date

30.07.2019

smar

Edit by

10.12.2024

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Appr.

Modification

Date

Name

Standard

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8118454 CMCB-D1-CC-S1 (PLd)

(8220233_EN 2024-12a)

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Item parts list

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2.2

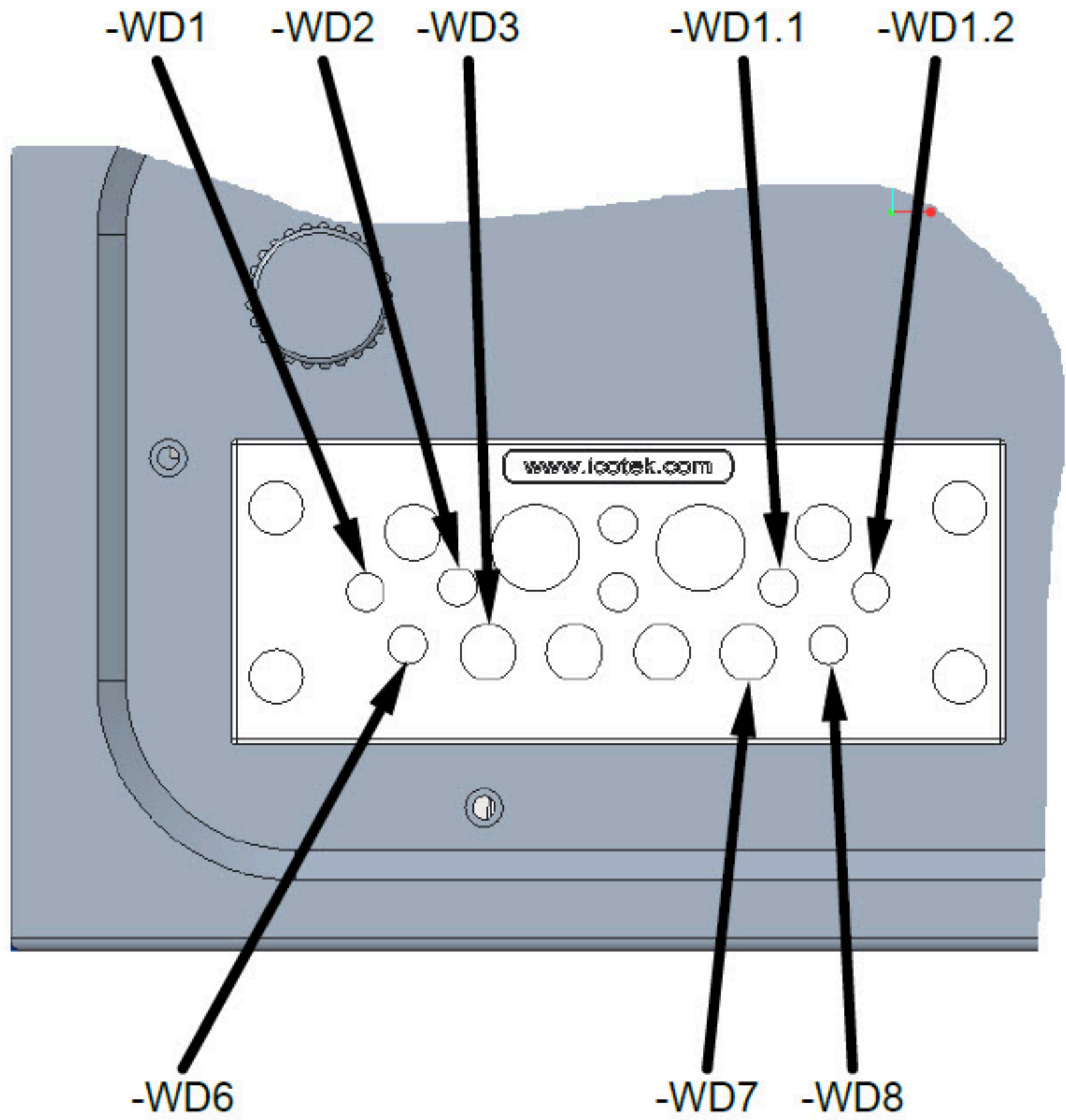
&MEC/1

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A filter should remove solid contamination (ISO 8573-A:2010, 6.4.4, filter $\leq 5\mu\text{m}$) from the compressed air



&MPC/2.3



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CGO Verbindungsliste

=A1+EXT/1

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Plug overview

Plug designation	Function text	Plug					Page of plug diagram
		first	last	Total PE	Total N	Total number	
-MM2-BG1-WD1-XD1		1	8	0	0	8	=A1+EXT&EMA/1
-MM2-BG2-WD1-XD1		1	8	0	0	8	=A1+EXT&EMA/2
-WD1-XD1		1	2	0	0	2	=A1+EXT&EMA/3
-WD1.1-XD1		1	4	0	0	3	=A1+EXT&EMA/4
-WD2-XD1		1	2	0	0	2	=A1+EXT&EMA/5
-WD2.1-XD1		1	4	0	0	3	=A1+EXT&EMA/6
-WD6-XD1		1	4	0	0	3	=A1+EXT&EMA/7
-WD7-XD1		1	8	0	0	8	=A1+EXT&EMA/8
-WD8-XD1		1	5	0	0	5	=A1+EXT&EMA/9
-WD10-XD1		1	8	0	0	8	=A1+EXT&EMA/10
-WD10-XD2		1	8	0	0	8	=A1+EXT&EMA/11

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Project status

xxx

Date

30.07.2019

smar

Edit by

25.07.2024

SMAR

Appr.

Modification

Date

Name

Standard

EN 61355-1:2008-06

8118454 CMCB-D1-CC-S1 (PLd)

(8220233_EN 2024-12a)

FESTO

Plug overview

EN

&EFA

Project no.:

= A1

+ EXT

Productionorder:

Pg.

2

Pg.

2

&EMA/1

DIN A3

07.01.2025

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Plug diagram

Plug	Plug target	with contact, unipolar	Female pin target	Page / column
=A1+EXT-MM2-BG2-WD1-XD1				
	-MM2-BG2:-X1:1	1	-KF5:S2:1	+CAB&EFS/22.6
	-MM2-BG2:-X1:2	2	-KF5:S2:2	+CAB&EFS/22.6
	-MM2-BG2:-X1:3	3	-KF5:S2:3	+CAB&EFS/22.6
	-MM2-BG2:-X1:4	4	-KF5:S2:4	+CAB&EFS/22.6
	-MM2-BG2:-X1:5	5	-KF5:S2:5	+CAB&EFS/22.6
	-MM2-BG2:-X1:6	6	-KF5:S2:6	+CAB&EFS/22.7
	-MM2-BG2:-X1:7	7	-KF5:S2:7	+CAB&EFS/22.7
		8	-KF5:S2:8	+CAB&EFS/22.7

1

Project status

xxx

Date

30.07.2019

smar

Edit by

17.12.2024

smar

Appr.

Modification

Date

Name

Standard

EN 61355-1:2008-06

8118454 CMCB-D1-CC-S1 (PLd)

(8220233_EN 2024-12a)

FESTO

Plug diagram =A1+EXT-MM2-BG2-WD1-XD1

EN

&EMA

Project no.:

= A1

+ EXT

Productionorder:

Pg.

2

Pg.

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DIN A3 07.01.2025

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Plug diagram

Plug	Plug target	with contact, unipolar	Female pin target	Page / column
=A1+EXT-WD1-XD1				
	-QM1-MB1:x1	1	+CAB-KF2:14	+CAB&EFS/16.2
	-QM1-MB1:x2	2	+CAB-XD5:26:2	+CAB&EFS/16.2

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Project status		xxx		8118454 CMCB-D1-CC-S1 (PLd) (8220233_EN 2024-12a)		Plug diagram =A1+EXT-WD1-XD1	EN &EMA		
		Date	30.07.2019				smar	= A1	
		Edit by	17.12.2024				smar	+ EXT	
		Appr.							
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									Pg. 11

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Plug diagram

Plug	Plug target	with contact, unipolar	Female pin target	Page / column
=A1+EXT-WD2-XD1				
	-QM1-MB1:x1	1	+CAB-KF2:24	+CAB&EFS/16.3
	-QM1-MB1:x2	2	+CAB-XD5:26:3	+CAB&EFS/16.3

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Project status		xxx		8118454 CMCB-D1-CC-S1 (PLd) (8220233_EN 2024-12a)		Plug diagram =A1+EXT-WD2-XD1	EN &EMA		
		Date	30.07.2019				= A1		
		Edit by	17.12.2024				+ EXT		
		Appr.							
Modification	Date	Name	Standard	EN 61355-1:2008-06			Productionorder:		Pg. 5
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Plug diagram

Plug	Plug target	with contact, unipolar	Female pin target	Page / column
=A1+EXT-WD2.1-XD1				
	-QM1-BG2:1	1	+CAB-XD5:3:4	+CAB&EFS/17.3
	-QM1-BG2:3	3	+CAB-XD5:22:3	+CAB&EFS/17.3
	-QM1-BG2:4	4	+CAB-KF4:A1	+CAB&EFS/17.4

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7

Project status		xxx		8118454 CMCB-D1-CC-S1 (PLd) (8220233_EN 2024-12a) FESTO	Plug diagram =A1+EXT-WD2.1-XD1	EN &EMA	
		Date	30.07.2019			Project no.: = A1	
		Edit by	17.12.2024			+ EXT	
		Appr.				Productionorder: Pg. 6	
Modification	Date	Name	Standard			EN 61355-1:2008-06	Pg. 11

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DIN A307.01.2025

0123456789

Plug diagram

Plug	Plug target	with contact, unipolar	Female pin target	Page / column
=A1+EXT-WD7-XD1				
	-KF5:TTL:1	1	+CAB-XD5:35:2	+CAB&EFS/20.2
	-KF5:TTL:2	2	+CAB-XD5:30:2	+CAB&EFS/20.2
	-KF5:TTL:3	3	+CAB-XD5:31:2	+CAB&EFS/20.2
	-KF5:TTL:4	4	+CAB-XD5:13:1	+CAB&EFS/20.3
	-KF5:TTL:5	5	+CAB-XD5:14:1	+CAB&EFS/20.3
	-KF5:TTL:6	6	+CAB-XD5:33:2	+CAB&EFS/20.3
	-KF5:TTL:7	7	+CAB-XD5:16:1	+CAB&EFS/20.3
	-KF5:TTL:8	8	+CAB-XD5:11:1	+CAB&EFS/20.3

7

Project status		xxx			8118454 CMCB-D1-CC-S1 (PLd) (8220233_EN 2024-12a)		Plug diagram =A1+EXT-WD7-XD1	EN &EMA	
		Date	30.07.2019	smar				= A1	
		Edit by	17.12.2024	smar				+ EXT	
		Appr.							
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Plug diagram

Plug	Plug target	with contact, unipolar	Female pin target	Page / column
=A1+EXT-WD10-XD1				
	-KF5:VPCB:1	1	-WD10-XD2:1	+CAB&EFS/21.2
	-KF5:VPCB:2	2	-WD10-XD2:2	+CAB&EFS/21.2
	-KF5:VPCB:3	3	-WD10-XD2:3	+CAB&EFS/21.2
	-KF5:VPCB:4	4	-WD10-XD2:4	+CAB&EFS/21.3
	-KF5:VPCB:5	5	-WD10-XD2:5	+CAB&EFS/21.3
	-KF5:VPCB:6	6	-WD10-XD2:6	+CAB&EFS/21.3
	-KF5:VPCB:7	7	-WD10-XD2:7	+CAB&EFS/21.3
	-KF5:VPCB:8	8	-WD10-XD2:8	+CAB&EFS/21.3

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Project status		xxx		8118454 CMCB-D1-CC-S1 (PLd) (8220233_EN 2024-12a)		Plug diagram =A1+EXT-WD10-XD1	EN&EMA		
		Date	30.07.2019smar				Project no.:		= A1
		Edit by	17.12.2024smar						+ EXT
		Appr.					Productionorder:		
Modification	Date	Name	Standard	EN 61355-1:2008-06			Pg. 10		
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Cable overview

Cable designation	from	up to	Cable type	Conductors	Conductors used	Ø	Length	Remark
-WD3			NEBC-M12G5-ES-5-LE5-CO	5	0	5x0,34/0,25 mm²	5 m	
-WD4	-XD5	-XD6	UNITRONIC® BUS CAN	4	4	4x0,22 mm²	0,5 m	
	-WD4	-WD4						
-WD5	-XD5	-XD6		8	8	8x26 mm²	1 m	
-WD9	-XD11-XD1		ÖLFLEX® 150	34G	34	34G0.5 mm	5,5 m	
	-XD11-XD2							
-WD10				4	0	4x26 mm²	1 m	
-WD11		-BG1	NEBA-M8G4-U-5-N-LE4	4	4	4x0,25 mm²	5 m	

+EXT&EMA/11

Project status		xxx		8118454 CMCB-D1-CC-S1 (PLd) (8220233_EN 2024-12a)		Cable overview	EN		&EFA	
		Date	30.07.2019				= A1			
		Edit by	17.12.2024				+ CAB			
		Appr.								
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									Pg.	3

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0123456789

Plug overview

Plug designation	Function text	Plug					Page of plug diagram
		first	last	Total PE	Total N	Total number	
-XD8				0	0	0	
-XD10				0	0	0	
-XD10-XD1		A1		0	0	17	=A1+CAB&EMA/3
-XD10-XD2		B1	BPE	1	0	18	=A1+CAB&EMA/4
-XD11				0	0	0	
-XD11-XD1		b1	bPE	1	0	18	=A1+CAB&EMA/5
-XD11-XD2		a1		0	0	17	=A1+CAB&EMA/6

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Project status

xxx

Date

30.07.2019

smar

Edit by

17.12.2024

smar

Appr.

Modification

Date

Name

Standard

EN 61355-1:2008-06

8118454 CMCB-D1-CC-S1 (PLd)

(8220233_EN 2024-12a)

FESTO

Plug overview

EN

&EFA

Project no.:

= A1

+ CAB

Productionorder:

Pg.

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Pg.

3

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&EFS/1

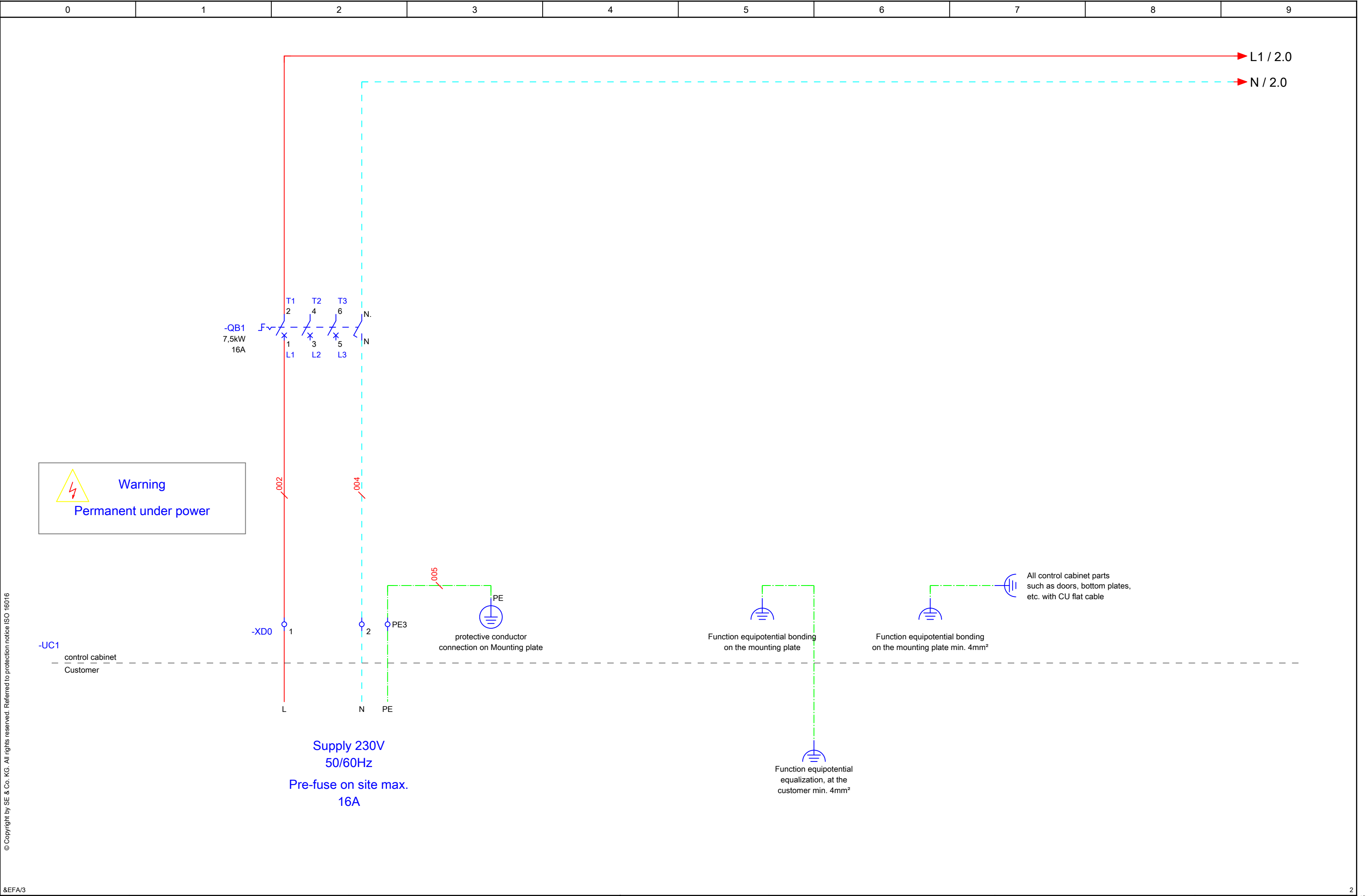
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&EFS/1

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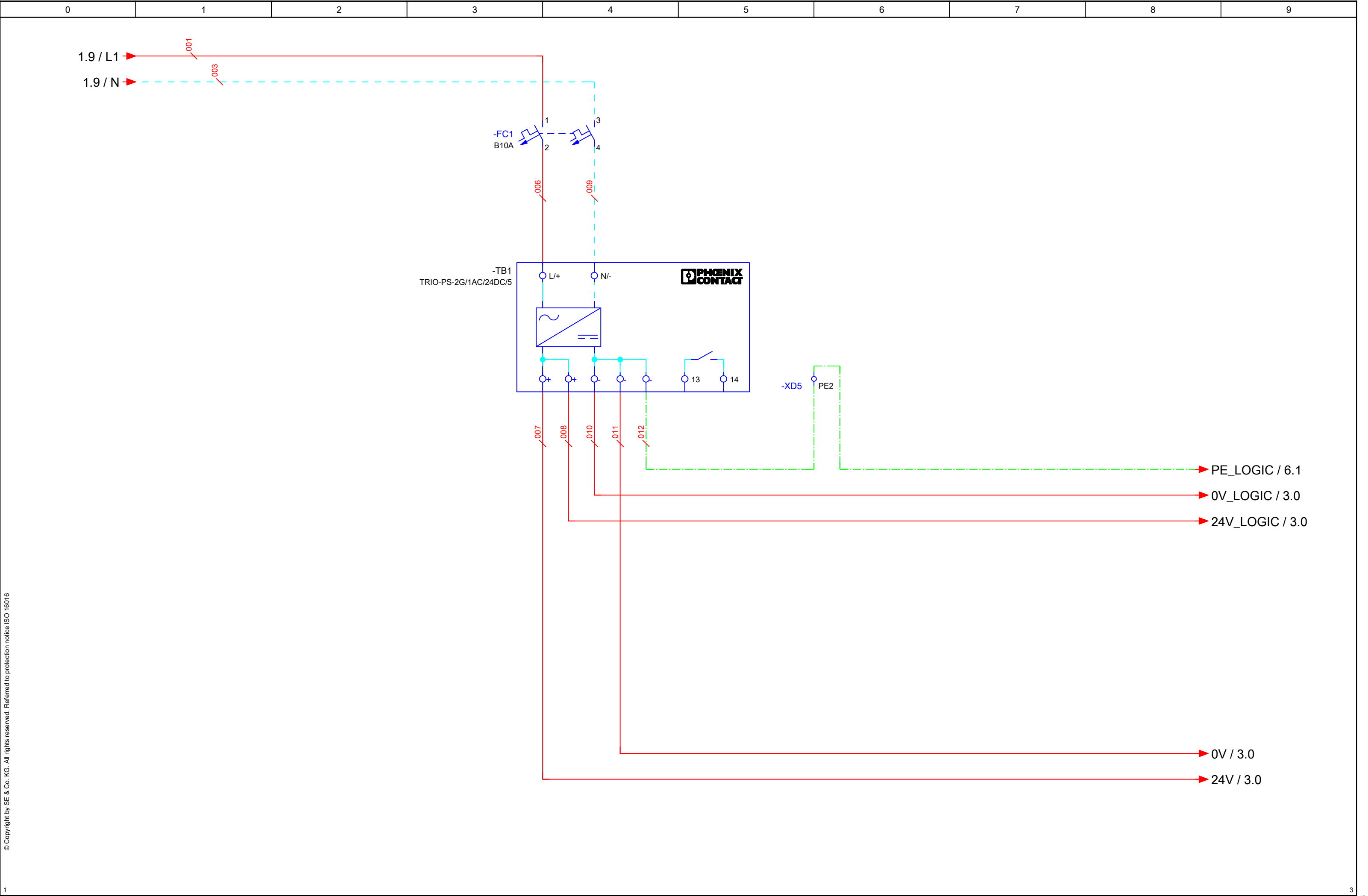


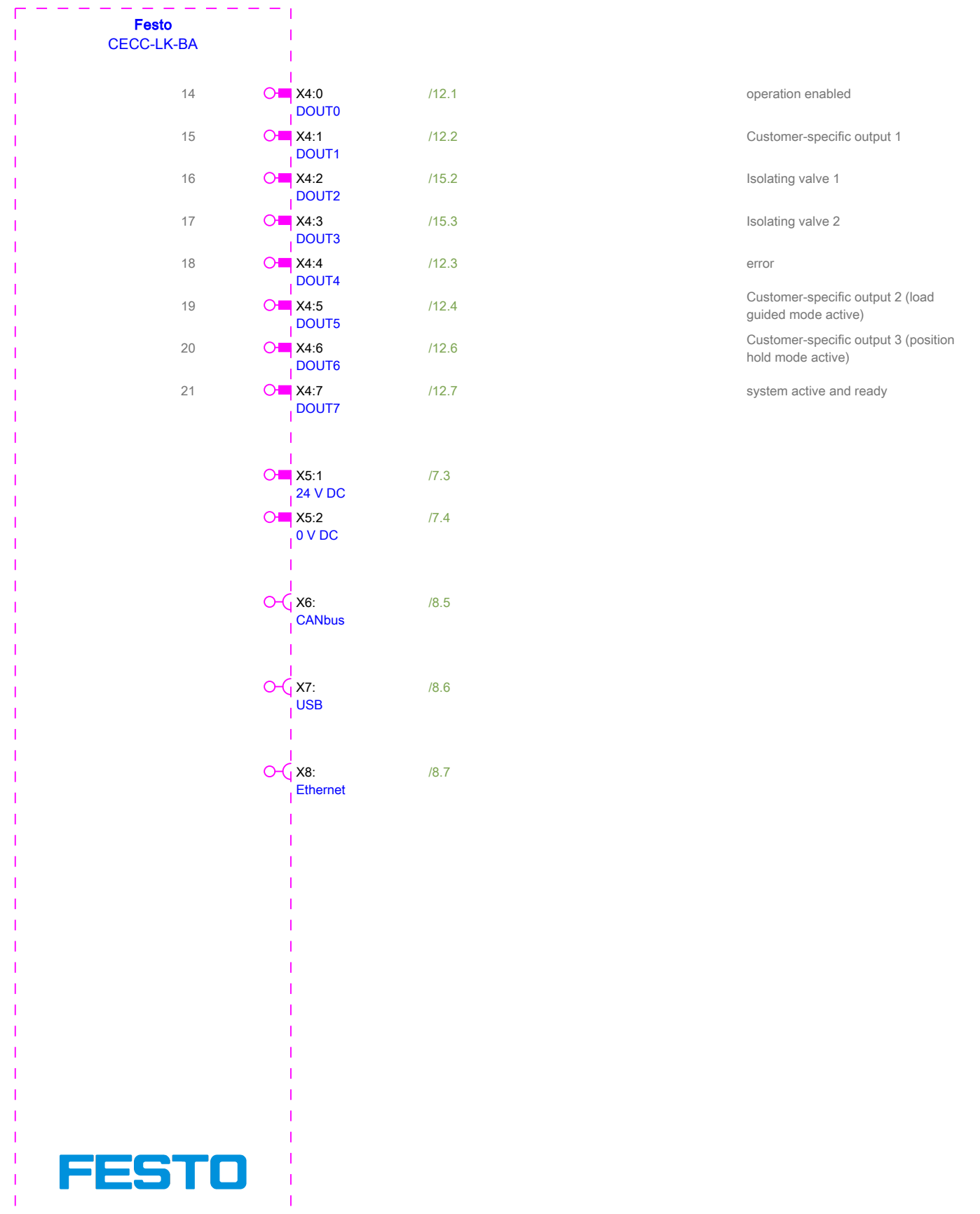
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DIN A3

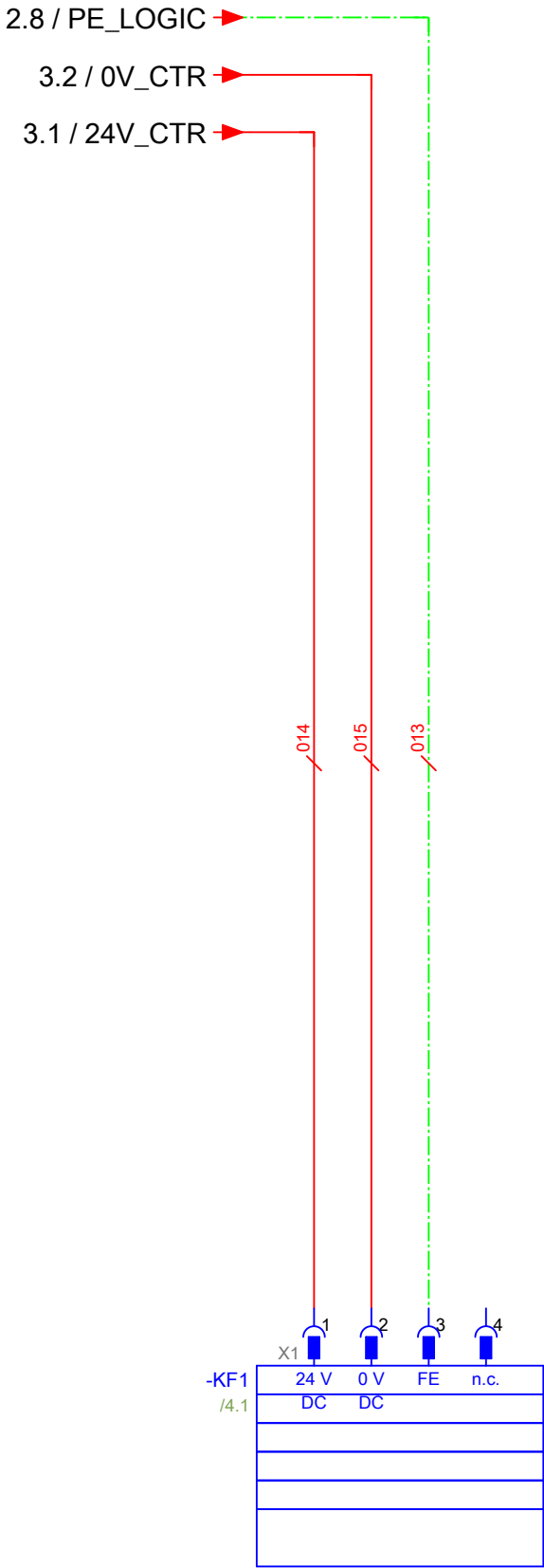
07.01.2025



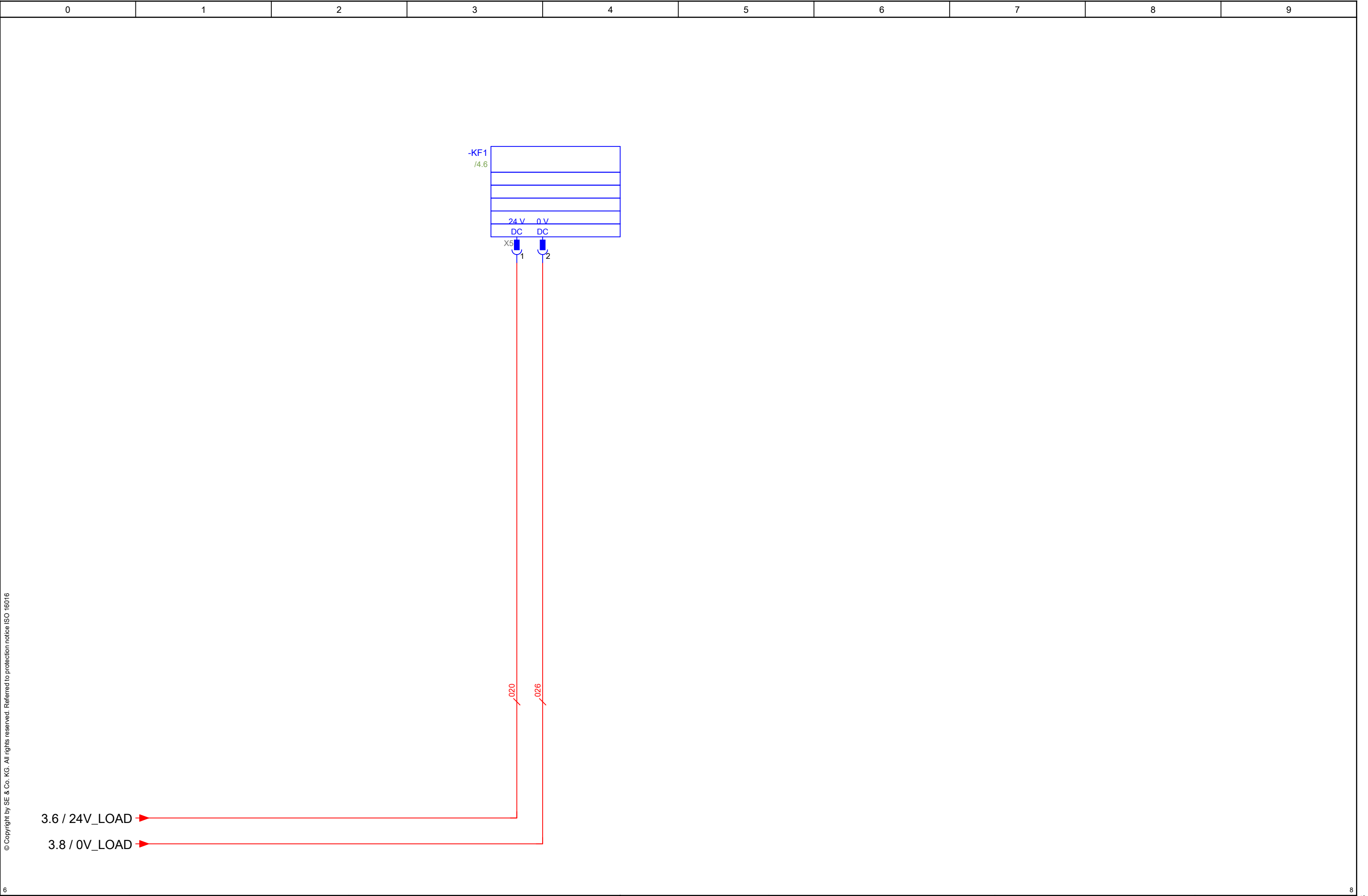




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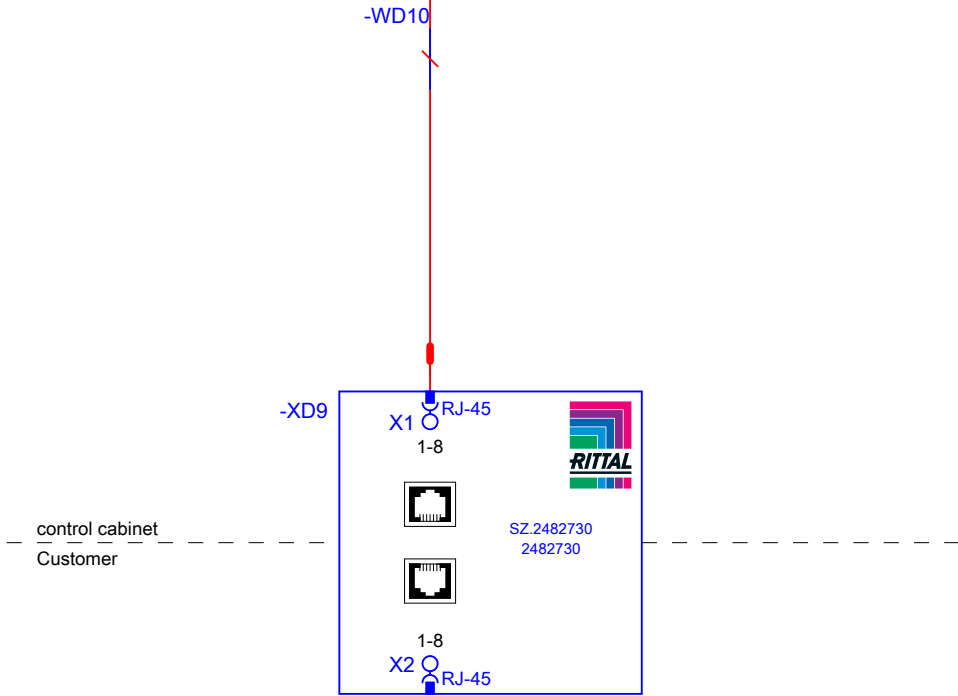
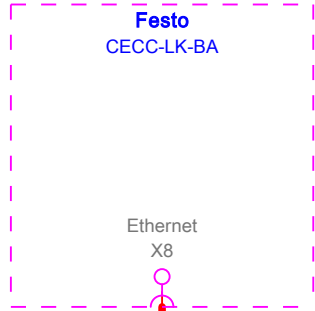
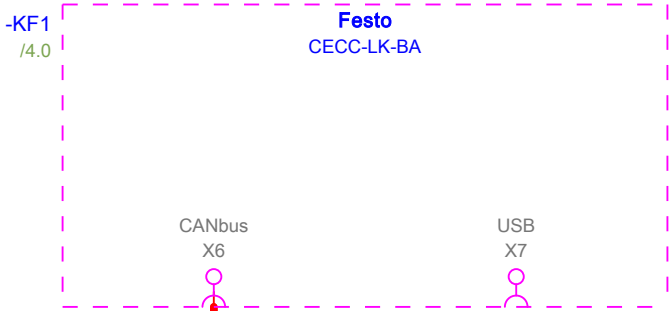
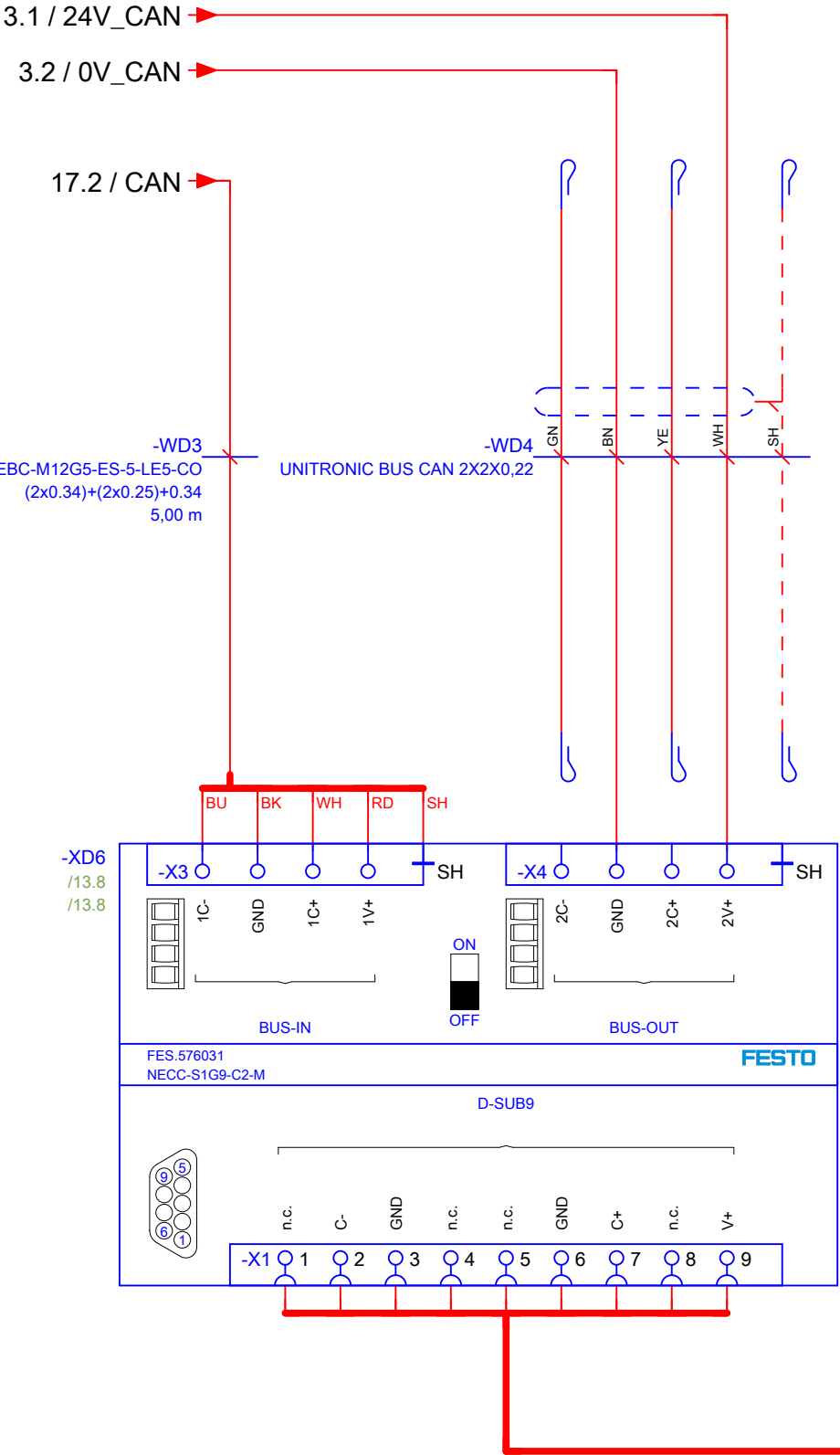


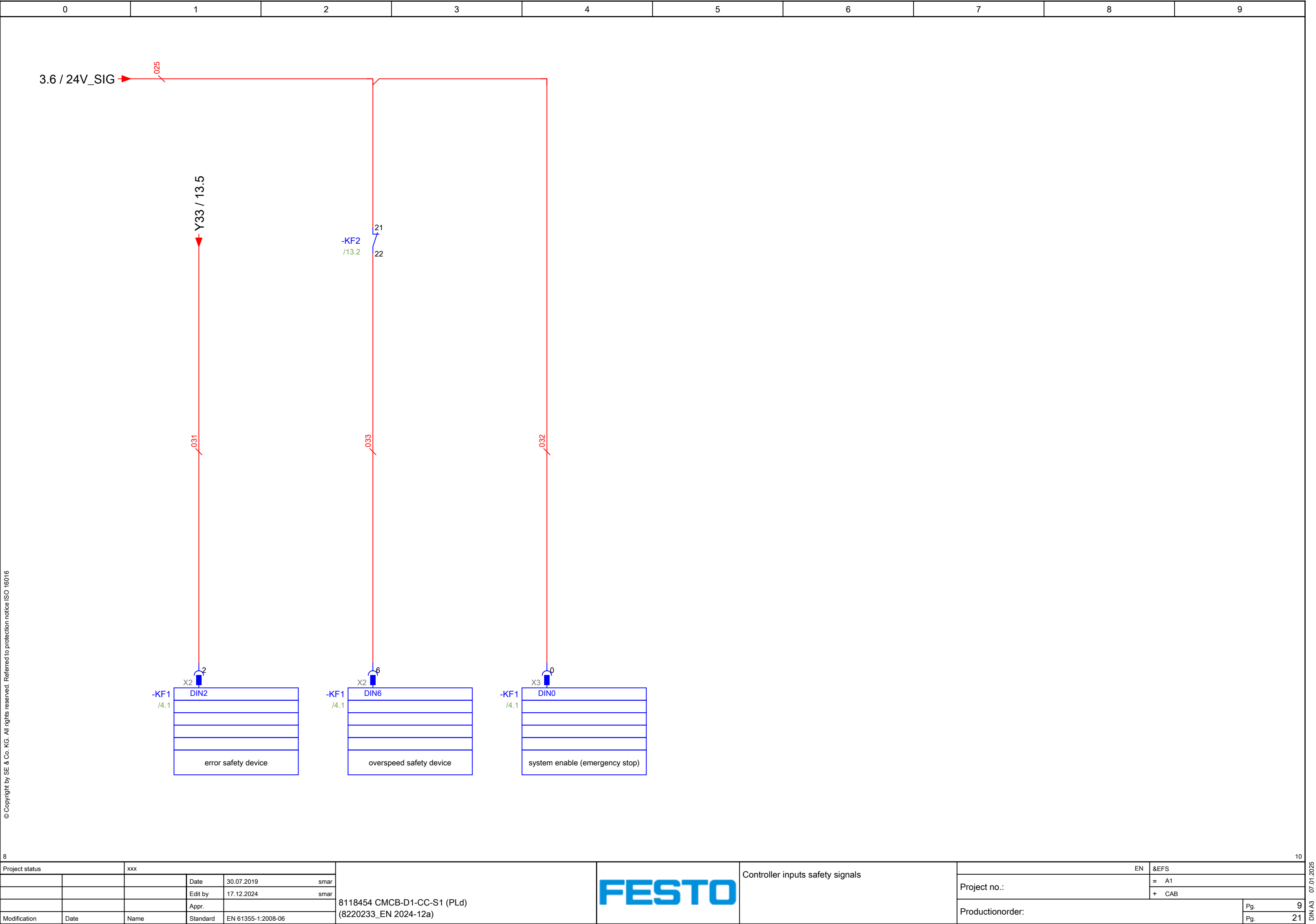
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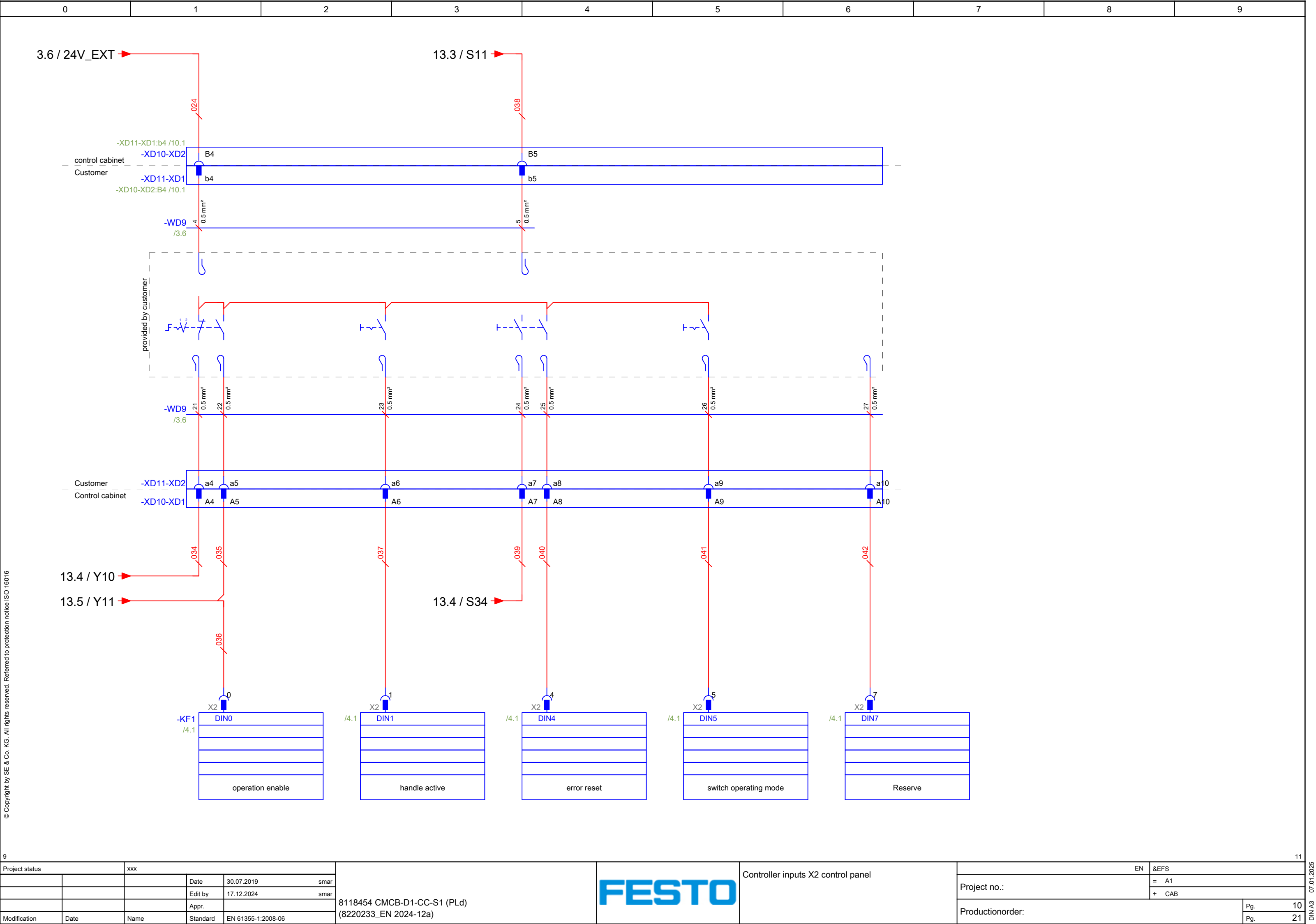
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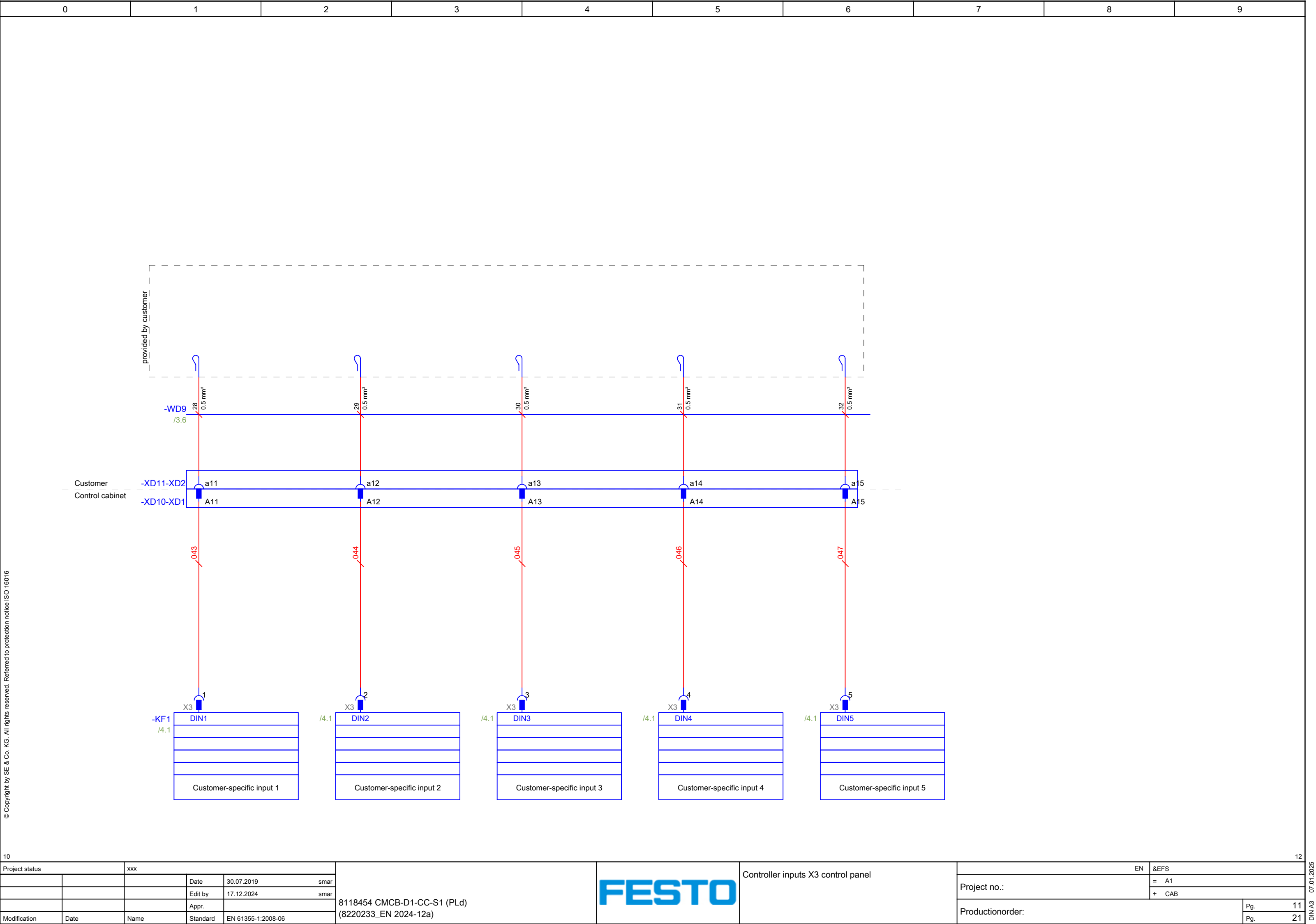




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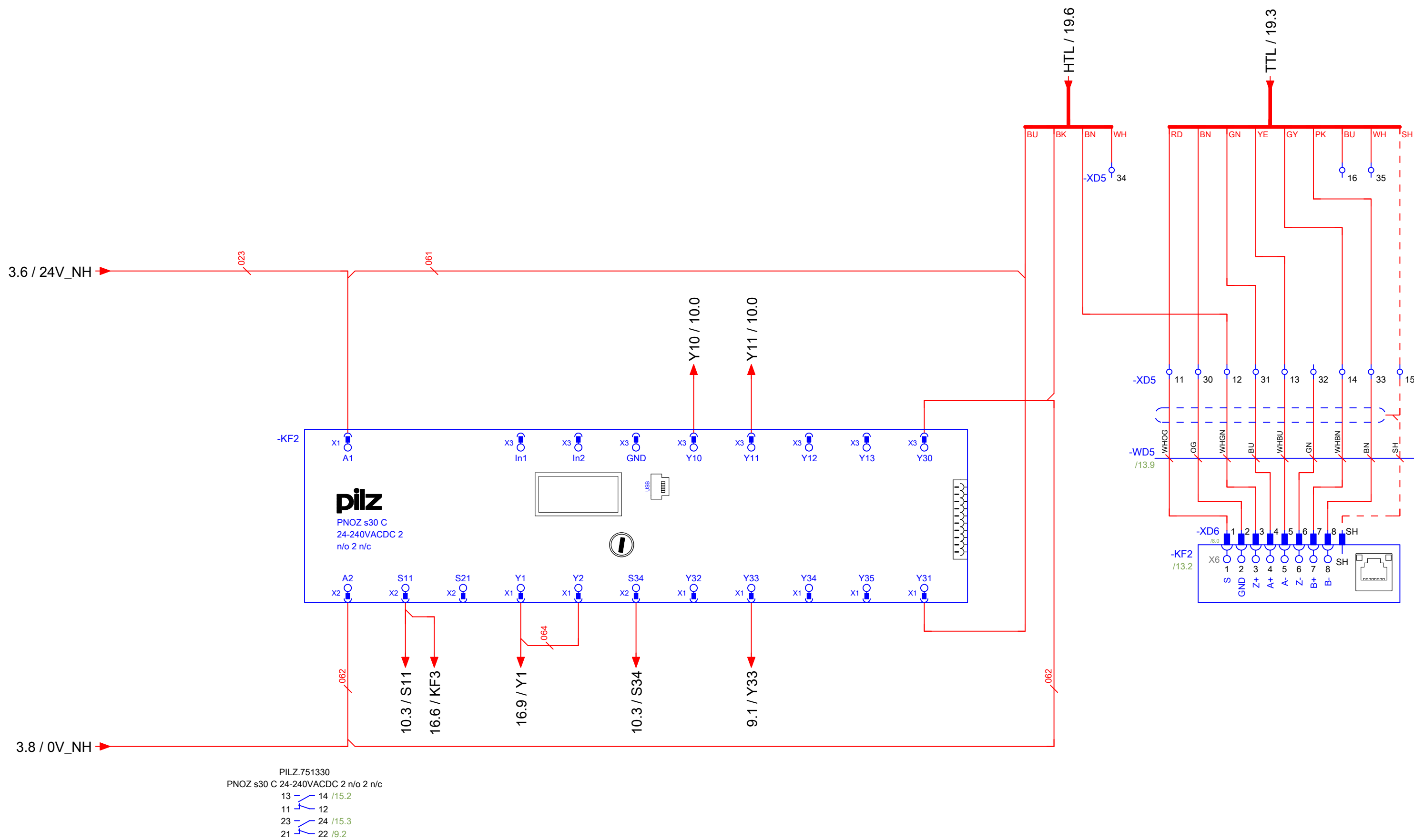


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Project status		xxx			
			Date	30.07.2019	smar
			Edit by	17.12.2024	smar
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Modification	Date	Name	Standard	EN 61355-1:2008-06	

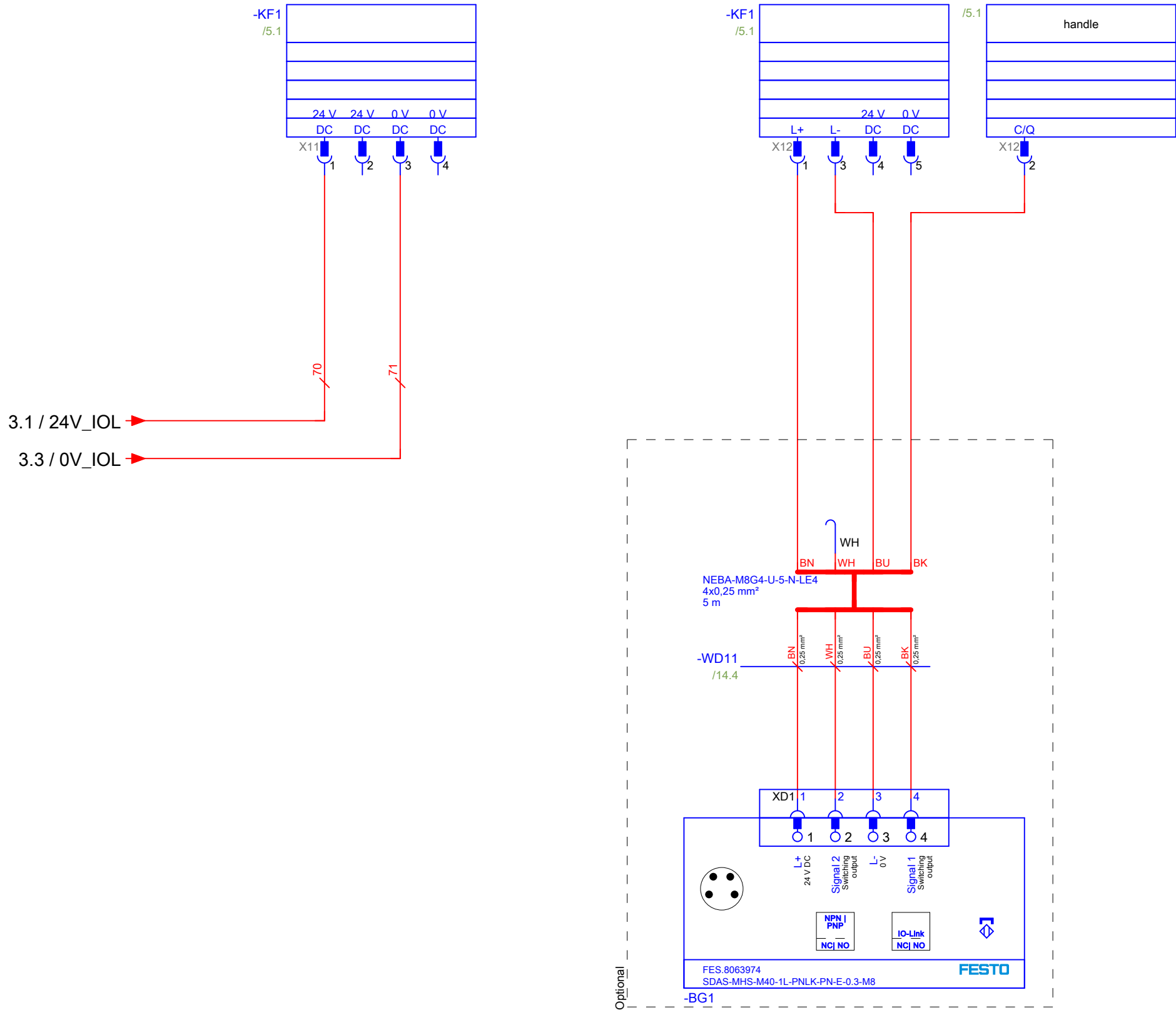
8118454 CMCB-D1-CC-S1 (PLd) (8220233_EN 2024-12a)	
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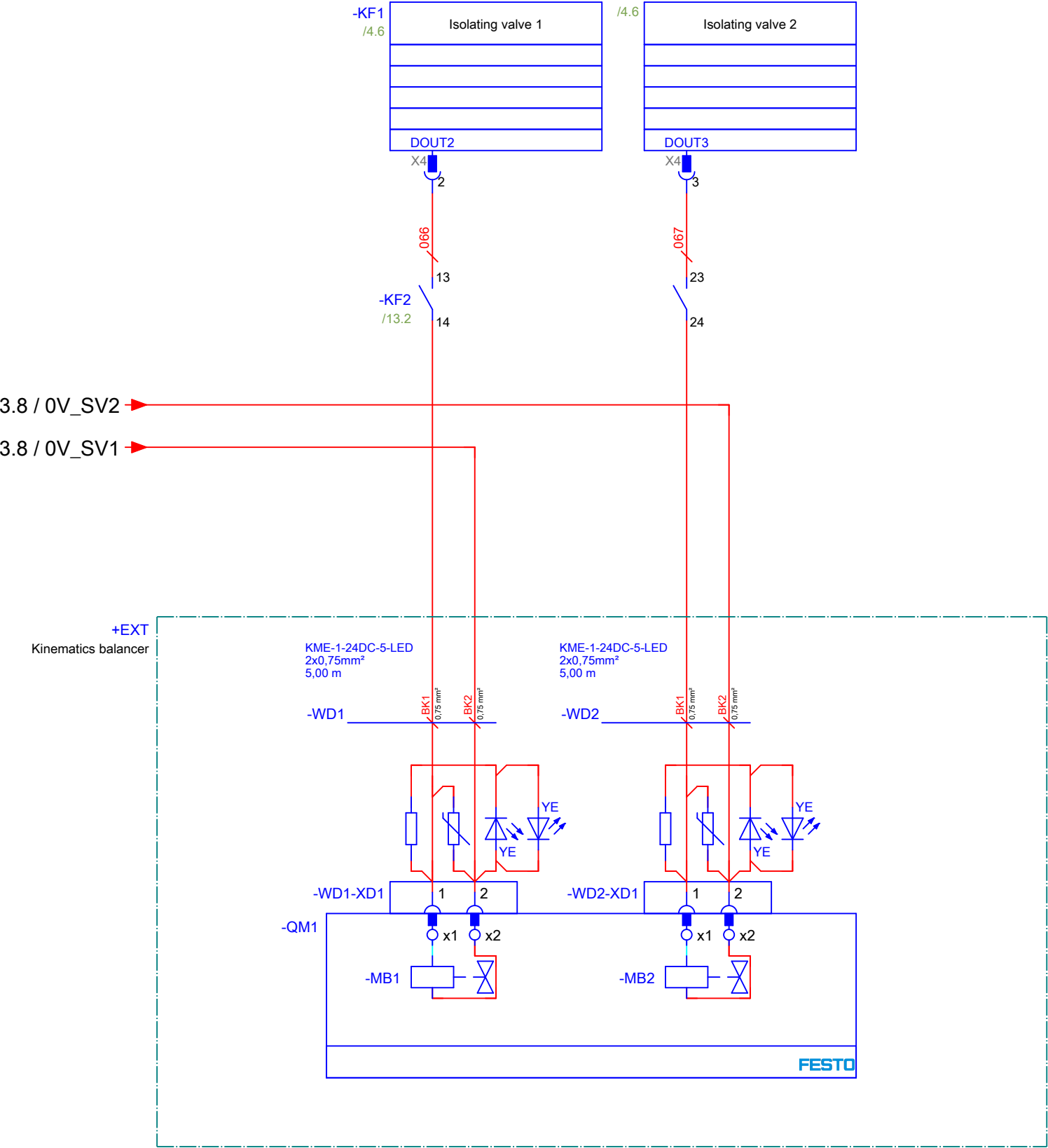
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EN &EFS	
Project no.: = A1	
+ CAB	
Productionorder:	
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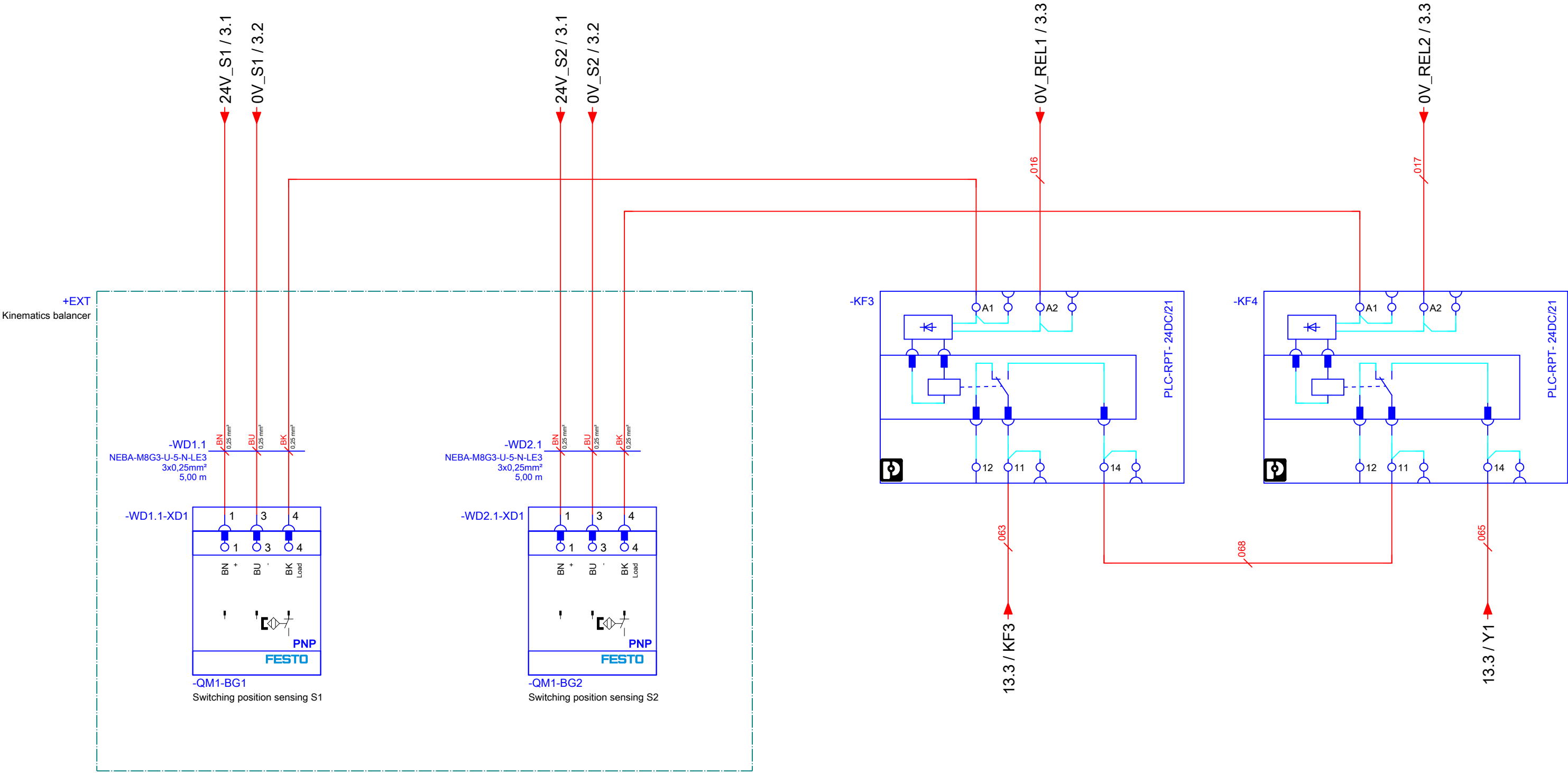
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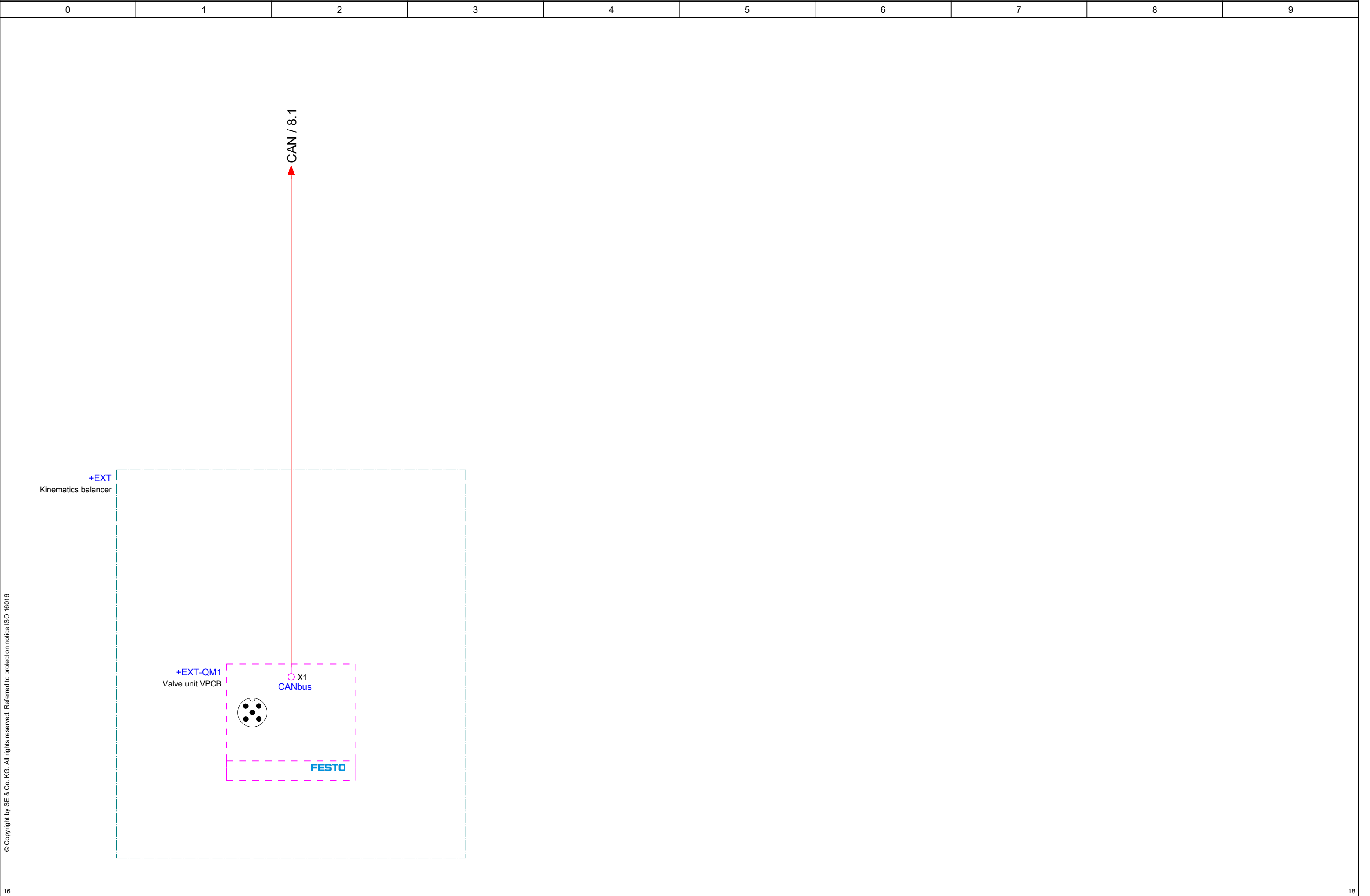


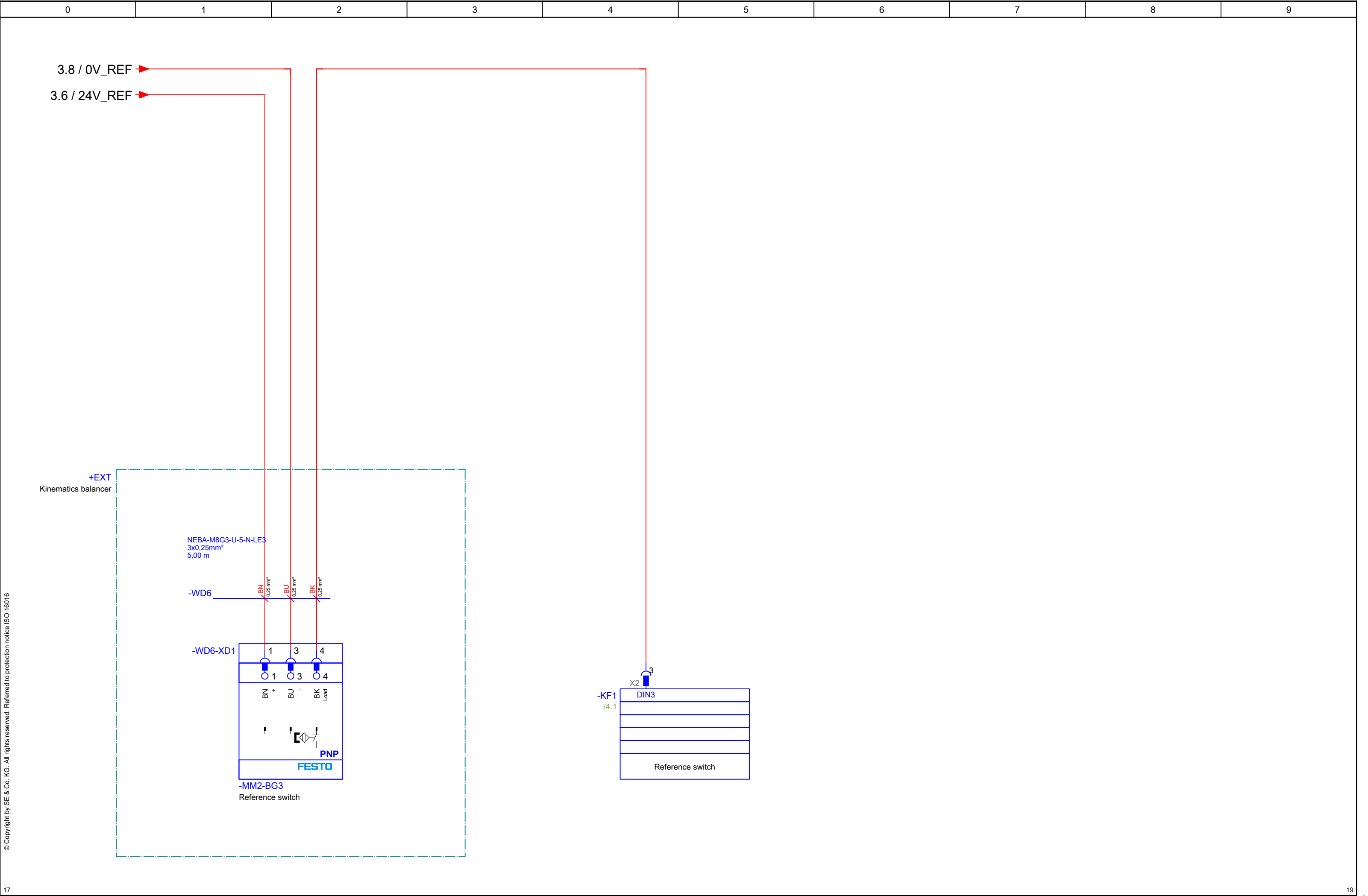
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		Edit by	17.12.2024 smar
		Appr.	
Modification	Date	Name	Standard EN 61355-1:2008-06

8118454 CMCB-D1-CC-S1 (PLd) (8220233_EN 2024-12a)	
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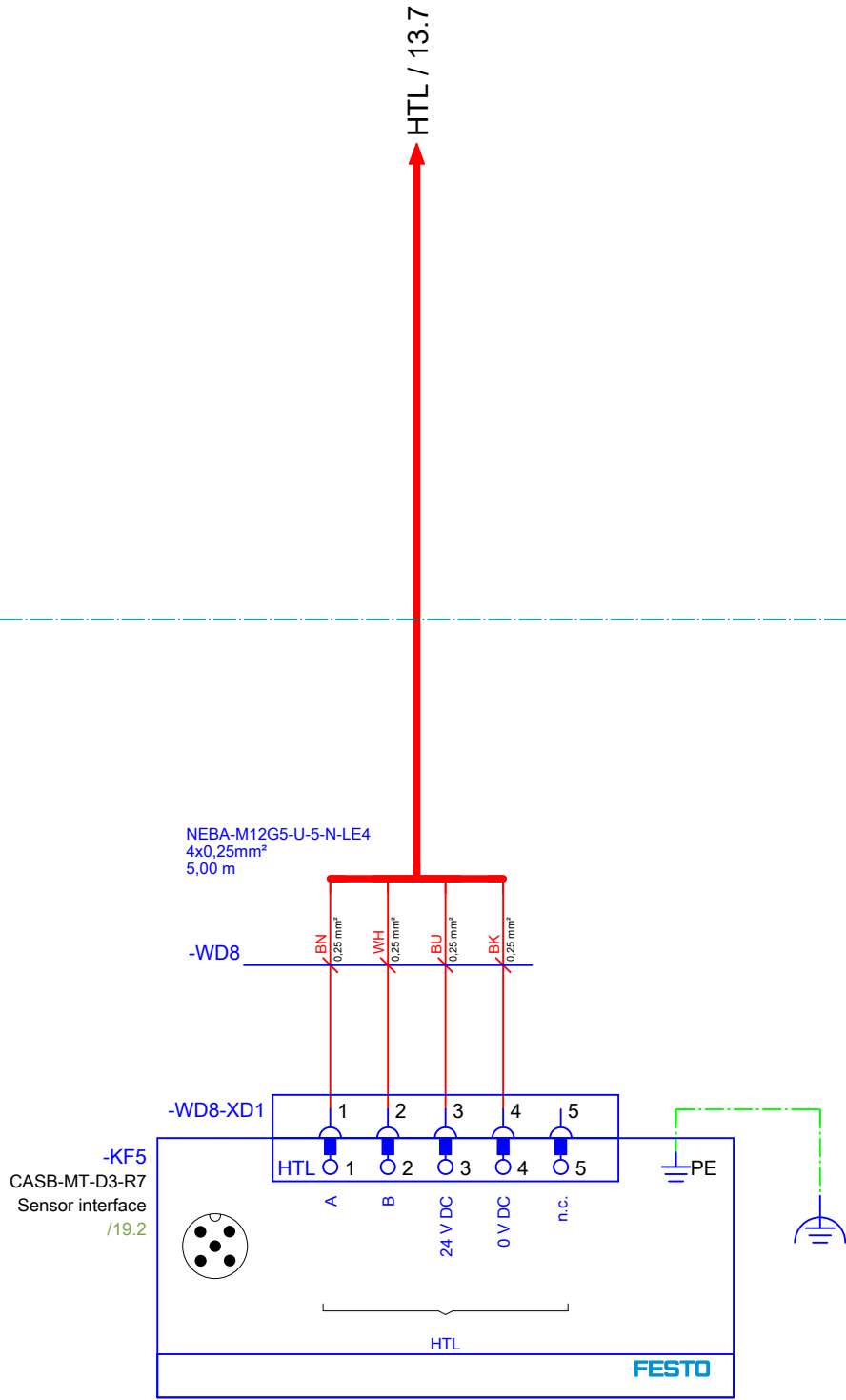
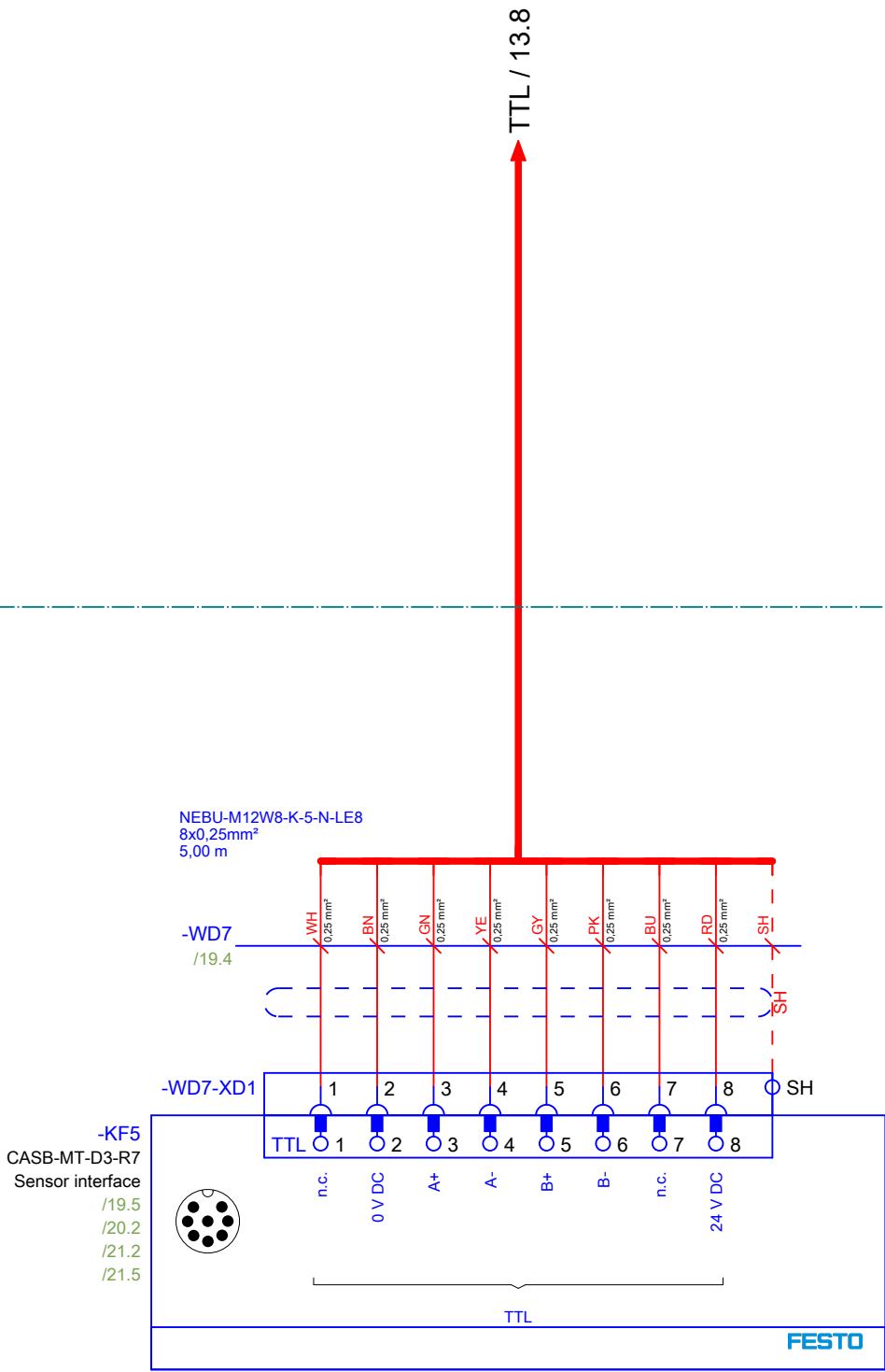


reference sensor	
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EN &EFS	
Project no.: = A1	
+ CAB	
Productionorder:	
Pg.	18
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+EXT
Kinematics balancer



Project status		xxx	
		Date	30.07.2019 smar
		Edit by	17.12.2024 smar
		Appr.	
Modification	Date	Name	Standard EN 61355-1:2008-06

8118454 CMCB-D1-CC-S1 (PLd)
(8220233_EN 2024-12a)

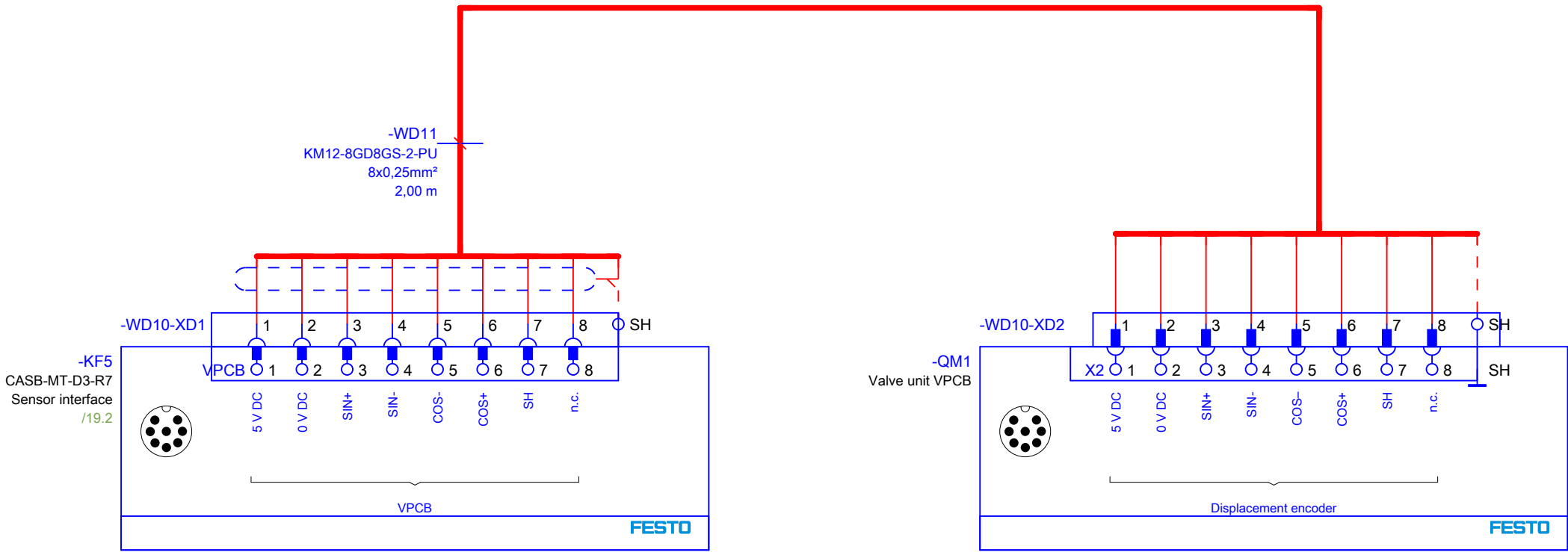


Sensor interface HTL/TTL

EN		&EFS	
Project no.:		= A1	
Productionorder:		+ CAB	
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+EXT
Kinematics balancer



Kinematics balancer



Terminal diagram

[illegible]

Terminal diagram

Strip/rail =A1+CAB-XD5 DC distribution															Cable name		Page / column					
															0,75 mm²	+EXT-WD7	+EXT-WD1	+EXT-WD1.1				
															NEBU-M12W8-K-5-N-LE8	KME-1-24DC-5-LED	NEBA-M8G3-U-5-N-LE3					
															Cable type							
															Connection							
															Target designation							
															Jumper							
															Terminal							
															Conction							
															Target designation							
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Terminal diagram

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Plug diagram

Plug	Plug target	with contact, unipolar	Female pin target	Page / column
=A1+CAB-XD10-XD1				
	-XD5:5:1	A1		&EFS/3.6
	-XD5:28:3	A2		&EFS/3.8
	-XD5:28:2	A3		&EFS/3.8
	-KF2:X3	A4		&EFS/11.1
	-KF2:X3	A5		&EFS/11.1
		A6		&EFS/11.2
	-KF2:X2	A7		&EFS/11.4
		A8		&EFS/11.4
		A9		&EFS/11.5
		A10		&EFS/11.6
		A11		&EFS/12.1
		A12		&EFS/12.2
		A13		&EFS/12.4
		A14		&EFS/12.5
		A15		&EFS/12.6
	-XD5:27:2	A16		&EFS/13.1

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Project status		xxx			8118454 CMCB-D1-CC-S1 (PLd) (8220233_EN 2024-12a)	FESTO	Plug diagram =A1+CAB-XD10-XD1	EN &EMA	
		Date	30.07.2019	smar				Project no.: = A1	
		Edit by	17.12.2024	smar				+ CAB	
		Appr.							
Modification	Date	Name	Standard	EN 61355-1:2008-06				Productionorder:	Pg. 3 Pg. 6

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DIN A3 07.01.2025

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Plug diagram

Plug	Plug target	with contact, unipolar	Female pin target	Page / column
=A1+CAB-XD10-XD2				
	-XD11-XD1:b1	B1	-XD5:9:4	&EFS/3.6
	-XD11-XD1:b2	B2	-XD5:10:4	&EFS/3.6
	-XD11-XD1:b3	B3	-XD5:10:1	&EFS/3.6
	-XD11-XD1:b4	B4	-XD5:7:1	&EFS/11.1
	-XD11-XD1:b5	B5	-KF2:X2	&EFS/11.4
	-XD11-XD1:b6	B6		&EFS/13.1
	-XD11-XD1:b7	B7		&EFS/13.2
	-XD11-XD1:b8	B8		&EFS/13.3
	-XD11-XD1:b9	B9		&EFS/13.4
	-XD11-XD1:b10	B10		&EFS/13.6
	-XD11-XD1:b11	B11		&EFS/13.7
	-XD11-XD1:b12	B12	-XD5:17:4	&EFS/13.8
	-XD11-XD1:b13	B13	-XD5:36:3	&EFS/13.8
	-XD11-XD1:b14	B14	-XD5:18:4	&EFS/13.8
	-XD11-XD1:b15	B15	-XD5:37:3	&EFS/13.8
	-XD11-XD1:b16	B16	-XD5:19:4	&EFS/13.9
	-XD11-XD1:b17	B17	-XD5:38:3	&EFS/13.9
	-XD11-XD1:bPE	BPE	-XD5:PE1:2	&EFS/13.9

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Project status		xxx	
		Date	30.07.2019smar
		Edit by	17.12.2024smar
		Appr.	
Modification	Date	Name	StandardEN 61355-1:2008-06

8118454 CMCB-D1-CC-S1 (PLd)
(8220233_EN 2024-12a)

FESTO

Plug diagram =A1+CAB-XD10-XD2

EN		&EMA	
Project no.:		= A1	
		+ CAB	
Productionorder:		Pg. 4	
		Pg. 6	

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DIN A307.01.2025

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Plug diagram

Plug	Plug target	with contact, unipolar	Female pin target	Page / column
=A1+CAB-XD11-XD1		b1	-XD10-XD2:B1	&EFS/3.6
		b2	-XD10-XD2:B2	&EFS/3.6
		b3	-XD10-XD2:B3	&EFS/3.6
		b4	-XD10-XD2:B4	&EFS/11.1
		b5	-XD10-XD2:B5	&EFS/11.4
		b6	-XD10-XD2:B6	&EFS/13.1
		b7	-XD10-XD2:B7	&EFS/13.2
		b8	-XD10-XD2:B8	&EFS/13.3
		b9	-XD10-XD2:B9	&EFS/13.4
		b10	-XD10-XD2:B10	&EFS/13.6
		b11	-XD10-XD2:B11	&EFS/13.7
		b12	-XD10-XD2:B12	&EFS/13.8
		b13	-XD10-XD2:B13	&EFS/13.8
		b14	-XD10-XD2:B14	&EFS/13.8
		b15	-XD10-XD2:B15	&EFS/13.8
		b16	-XD10-XD2:B16	&EFS/13.9
		b17	-XD10-XD2:B17	&EFS/13.9
		bPE	-XD10-XD2:BPE	&EFS/13.9

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Project status		xxx		8118454 CMCB-D1-CC-S1 (PLd) (8220233_EN 2024-12a)		Plug diagram =A1+CAB-XD11-XD1	EN &EMA		
		Date	30.07.2019				= A1		
		Edit by	17.12.2024				+ CAB		
		Appr.							
Modification	Date	Name	Standard	EN 61355-1:2008-06			Productionorder:		Pg. 5
									Pg. 6

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DIN A3 07.01.2025

Plug diagram

Plug	Plug target	with contact, unipolar	Female pin target	Page / column
=A1+CAB-XD11-XD2				
		a1		&EFS/3.6
		a2		&EFS/3.8
		a3		&EFS/3.8
		a4		&EFS/11.1
		a5		&EFS/11.1
		a6		&EFS/11.2
		a7		&EFS/11.4
		a8		&EFS/11.4
		a9		&EFS/11.5
		a10		&EFS/11.6
		a11		&EFS/12.1
		a12		&EFS/12.2
		a13		&EFS/12.4
		a14		&EFS/12.5
		a15		&EFS/12.6
		a16		&EFS/13.1