

Festo Inc. 5300 Explorer Drive L4W 5G4 Mississauga, Ontario

**Customer Solutions** 

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FMCP-3P-4CMMP-CPXE Plant designation

CA0ZFA

Customer order no. 6800099354

Festo order number 5221134280

23455210 / FMCP Master Drawig: 3 Phase, 4 CMMP, CPXE Material / Project no

Customer

Type of project 37B1F6LX **FESTO CORPORATION** Name Responsible for project Zaid Faraj

Project name MASTER-FMCP-3PH-4CMMP Customer plant **Plant** 

5300 Explorer Dr, Street Edit 13.07.2022 ca0zfa

Code postal: / location L4W 5G4 Mississauga, ON Revision 1 13.07.2022 ca0zfa

Number of pages

19.11.2021

Created

Approved

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.

# Summarized parts list

Quantity	Order number	Type number	Designation	$\Sigma$ Length [m]	Manufacturer
1	WEI.BR3C06UC		Circuit breaker 3Poles, C-Curve,6A	0	
1	194E-A32-1753	194E	IEC Load Switch, Base/DIN Rail Mounting	0	Allen-Bradley (NFPA Data)
1	194L-G3394	194L	Shaft Extension	0	Allen-Bradley (NFPA Data)
1	194L-HE6G-175	194L	Handle for Front/Base Mounting, 64 x 64mm	0	Allen-Bradley (NFPA Data)
1	35A1804U	35A1804U	Cable 4 x 18AWG	0	AWP
3	550311	NEBM-M23G8-E-10-Q9N-LE8	Motor cable	30	Festo
3	550319	NEBM-M12W8-E-10-N-S1G15	Encoder cable	30	Festo
1	8150834	NEBM-M23G15-EH-10-Q7N-S1LEG21-CS		10	Festo
11	AT-C5-3BU-10PK		3FT Cat5e UTP 24AWG Ethernet Network	0	Festo
3	3215473	CMMP-AS-C15-11A-P3-M3	Motor controller	0	Festo
4	567856	CAMC-EC	Interface	0	Festo
4	1501330	CAMC-G-S1	Safety module	0	Festo
2	1501327	CMMP-AS-C5-11A-P3-M3	Motor controller	0	Festo
3	550138	EMMS-AS-140-L-HS-RMB	Servo motor	0	Festo
1	5242219	EMMT-AS-60-L-HS-RMB	Servo motor	0	Festo
1	4252744	CPX-E-CEC-M1-EP	control unit	0	Festo
3	2882343	CACR-KL2-40-W2000	Braking resistance	0	Festo
1	58812	8 port unmanaged switch	Xelity 8TX	0	Murrelektronik
1	9000-41068-0400000	MICO Basic 8.4	MICO BASIC 8.4 electronic circuit protection 8 CHANNELS	0	Murrelektronik
1	85691	85691	Emparro Power Supply 3-PHASE	0	Murrelektronik
1	3000-33113-3020060	MIRO SAFE+ T 2 24	MIRO SAFE+ T 2 24 24 VAC/DC - 3 N/O contact / 2 N/O contact delayed	0	Murrelektronik
1	4000-73000-0010000	4000-73000-0010000	Connector (special)	0	Murrelektronik
4	2761622	SUBCON 25/M-SH	D-SUB bus connector	0	Phoenix Contact
1	3238124	SK.3238124	TopTherm fan-and-filter units	0	Rittal
38	2434340000	AMC 2.5	motor connection terminal	0	Weidmueller
4	WEI.BR3C15UC	WEI.BR3C15UC	Circuit Breaker , 3Poles,C-Curve,15A	0	Weidmueller

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roject status		xxx				FESTO CORPORATION
0B.	13.07.2022	ca0zfa	Date	19.11.2021	CA0ZFA	
0A.	12.07.2022	ca0zfa	Edit by	13.07.2022	ca0zfa	
			Appr.			FMCP-3P-4CMMP-CPXE
lodification	Date	Name	Standard	DIRECTIVE 2014/35/EU		



Summarized parts list

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	EN	&MPC			2022
aterial no.:	23455210	=			.07.
ateriai 110	23433210	+			13
oject no.:	FMCP Master Drawig:	3 Phase , 4 CMMP , CPXE	Pg.	1	l A3
oductionorder:		001330719396	Pg.	2.3	

# Summarized parts list

Quantity	Order number	Type number	Designation	$\Sigma$ Length [m]	Manufacturer
3	1010200000	WPE 6	Earth terminal	0	Weidmueller

V3.-11.5057.

Project status		xxx			
00B.	13.07.2022	ca0zfa	Date	19.11.2021	CA0ZFA
00A.	12.07.2022	ca0zfa	Edit by	13.07.2022	ca0zfa
			Appr.		
Modification	Date	Name	Standard	DIRECTIVE 2014/35/ELL	

FESTO CORPORATION

FMCP-3P-4CMMP-CPXE



Summarized parts list

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Material no.:	23455210	=			, 20
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Project no.:	FMCP Master Drawig:	3 Phase , 4 CMMP , CPXE	Pg.	1.1	0 4
Productionorder:		001330719396	Pg.	2.3	Ž

Reference identification	Quantity	Order number	Designation	X-length	Manufacturer	Identcode 1
Placement	Quantity	Type number	Designation	Length [m]	Manufacturei	Identcode 2
-CB0120	1	WEI.BR3C06UC	Circuit breaker 3Poles, C-Curve,6A	Length [m]		identicode 2
=A1+O1&EFS/1.1	'	WEI.BR3C000C	Circuit breaker 31 dies, G-Gurve, GA			
	1	WEI.BR3C15UC	Circuit Breaker , 3Poles,C-Curve,15A		Maidanallan	
-CB0130	1		Circuit Breaker, Sholes, C-Curve, 15A		Weidmueller	
=A1+O1&EFS/1.2		WEI.BR3C15UC	O'co 'i Burston OBalan O Ocean 454			
-CB0140	1	WEI.BR3C15UC	Circuit Breaker , 3Poles,C-Curve,15A		Weidmueller	
=A1+O1&EFS/1.3		WEI.BR3C15UC				
-CB0150	1	WEI.BR3C15UC	Circuit Breaker , 3Poles,C-Curve,15A		Weidmueller	
=A1+O1&EFS/1.4		WEI.BR3C15UC		9,		
-CB0160	1	WEI.BR3C15UC	Circuit Breaker , 3Poles,C-Curve,15A	O	Weidmueller	
=A1+O1&EFS/1.5		WEI.BR3C15UC				
-CBL0510	1	35A1804U	Cable 4 x 18AWG		AWP	
=A1+O1&EFS/5.1		35A1804U				
CBL2210	1	550311	Motor cable		Festo	
=A1+O1&EFS/22.0		NEBM-M23G8-E-10-Q9N-LE8	V. O.	10 m		
CBL2230	1	550319	Encoder cable		Festo	
=A1+O1&EFS/22.3		NEBM-M12W8-E-10-N-S1G15		10 m		
CBL2610	1	550311	Motor cable		Festo	
=A1+O1&EFS/26.0		NEBM-M23G8-E-10-Q9N-LE8		10 m		
CBL2630	1	550319	Encoder cable		Festo	
=A1+O1&EFS/26.3		NEBM-M12W8-E-10-N-S1G15		10 m		
CBL3010	1	550311	Motor cable		Festo	
=A1+O1&EFS/30.0		NEBM-M23G8-E-10-Q9N-LE8		10 m		
CBL3030	1	550319	Encoder cable		Festo	
=A1+O1&EFS/30.3		NEBM-M12W8-E-10-N-S1G15		10 m		
CBL3410	1	8150834			Festo	
=A1+O1&EFS/34.0		NEBM-M23G15-EH-10-Q7N-S1LEG21-CS		10 m		
CBL5010	1	AT-C5-3BU-10PK	3FT Cat5e UTP 24AWG Ethernet Network		Festo	
=A1+O1&EFS/50.0						
-CBL5020	1	AT-C5-3BU-10PK	3FT Cat5e UTP 24AWG Ethernet Network		Festo	
=A1+O1&EFS/50.2						

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Project status		xxx				FESTO CORPORATION
00A.	12.07.2022	ca0zfa	Date	19.11.2021	CA0ZFA	
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			Appr.			FMCP-3P-4CMMP-CPXE
Modification	Date	Name	Standard	DIRECTIVE 2014/35/ELL		



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		EN	&MPC		
it.	Material no.:	23455210	=		
	Material 110	23433210	+		
	Project no.:	FMCP Master Drawig :	3 Phase , 4 CMMP , CPXE	Pg.	2
	Productionorder:		001330719396	Pa.	2.3

Reference identification	Quantity	Order number	Designation	X-length	Manufacturer	Identcode 1
Placement		Type number		Length [m]		Identcode 2
-CBL5030	1	AT-C5-3BU-10PK	3FT Cat5e UTP 24AWG Ethernet Network		Festo	
=A1+O1&EFS/50.3						
-CBL5040	1	AT-C5-3BU-10PK	3FT Cat5e UTP 24AWG Ethernet Network		Festo	
=A1+O1&EFS/50.4						
-CBL5050	1	AT-C5-3BU-10PK	3FT Cat5e UTP 24AWG Ethernet Network		Festo	
=A1+O1&EFS/50.5						
-CBL5080	1	AT-C5-3BU-10PK	3FT Cat5e UTP 24AWG Ethernet Network		Festo	
=A1+O1&EFS/11.4						
CBL5110	1	AT-C5-3BU-10PK	3FT Cat5e UTP 24AWG Ethernet Network		Festo	
=A1+O1&EFS/51.2						
CBL5120	1	AT-C5-3BU-10PK	3FT Cat5e UTP 24AWG Ethernet Network		Festo	
=A1+O1&EFS/51.2						
CBL5130	1	AT-C5-3BU-10PK	3FT Cat5e UTP 24AWG Ethernet Network		Festo	
=A1+O1&EFS/51.4			K'O'			
CBL5140	1	AT-C5-3BU-10PK	3FT Cat5e UTP 24AWG Ethernet Network		Festo	
=A1+O1&EFS/51.7						
CBL5150	1	AT-C5-3BU-10PK	3FT Cat5e UTP 24AWG Ethernet Network		Festo	
=A1+O1&EFS/51.9						
CMMP-AS-1	1	3215473	Motor controller		Festo	
=A1+O1&EFS/21.0		CMMP-AS-C15-11A-P3-M3				
CMMP-AS-1-EC	1	567856	Interface		Festo	
=A1+O1&EFS/51.1		CAMC-EC				
CMMP-AS-1-S1	1	1 1501330	Safety module		Festo	
=A1+O1&EFS/21.3		CAMC-G-S1				
CMMP-AS-2	1	3215473	Motor controller		Festo	
=A1+O1&EFS/25.0		CMMP-AS-C15-11A-P3-M3				
CMMP-AS-2-EC	1	567856	Interface		Festo	
=A1+O1&EFS/51.3		CAMC-EC				
CMMP-AS-2-S1	1	1 1501330	Safety module		Festo	
=A1+O1&EFS/25.3		CAMC-G-S1				
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Project status		xxx				FESTO CORPORATION
00A.	12.07.2022	ca0zfa	Date	19.11.2021	CA0ZFA	
			Edit by	13.07.2022	ca0zfa	
			Appr.			FMCP-3P-4CMMP-CPXE
Modification	Date	Name	Standard	DIRECTIVE 2014/35/EU	_	



				2.2
	EN	&MPC		
Material no.:	23455210	=		
Material 110	23433210	+		
Project no.:	FMCP Master Drawig:	3 Phase , 4 CMMP , CPXE	Pg.	2.1
Productionorder:		001330719396	Pg.	2.3

Reference identification	Quantity	Order number	Designation	X-length	Manufacturer	Identcode 1
Placement		Type number		Length [m]		Identcode 2
CMMP-AS-3	1	3215473	Motor controller		Festo	
=A1+O1&EFS/29.0		CMMP-AS-C15-11A-P3-M3				
CMMP-AS-3-EC	1	567856	Interface		Festo	
=A1+O1&EFS/51.5		CAMC-EC				
CMMP-AS-3-S1	1	1501330	Safety module		Festo	
=A1+O1&EFS/29.4		CAMC-G-S1				
CMMP-AS-4	2	1501327	Motor controller		Festo	
=A1+O1&EFS/33.0		CMMP-AS-C5-11A-P3-M3				
CMMP-AS-4-EC	1	567856	Interface	CV	Festo	
=A1+O1&EFS/51.7		CAMC-EC				
CMMP-AS-4-S1	1	1501330	Safety module		Festo	
=A1+O1&EFS/33.4		CAMC-G-S1				
CON2300	1	2761622	D-SUB bus connector		Phoenix Contact	
=A1+O1&EFS/23.0		SUBCON 25/M-SH	٧,2,			
CON2700	1	2761622	D-SUB bus connector		Phoenix Contact	
=A1+O1&EFS/27.0		SUBCON 25/M-SH				
CON3100	1	2761622	D-SUB bus connector		Phoenix Contact	
=A1+O1&EFS/31.0		SUBCON 25/M-SH				
CON3500	1	2761622	D-SUB bus connector		Phoenix Contact	
=A1+O1&EFS/35.0		SUBCON 25/M-SH				
-DS0110	1	194E-A32-1753	IEC Load Switch, Base/DIN Rail Mounting		Allen-Bradley (NFPA	
=A1+O1&EFS/1.1		194E			Data)	
-DS0110	1	194L-G3394	Shaft Extension		Allen-Bradley (NFPA	
=A1+O1&EFS/1.1		194L			Data)	
-DS0110	1	194L-HE6G-175	Handle for Front/Base Mounting, 64 x 64mm		Allen-Bradley (NFPA	
=A1+O1&EFS/1.1		194L			Data)	
ETH5000	1	58812	Xelity 8TX		Murrelektronik	
=A1+O1&EFS/50.0		8 port unmanaged switch				
FAN5530	1	3238124	TopTherm fan-and-filter units		Rittal	
=A1+O1&EFS/55.3		SK.3238124				

Project status		xxx		FESTO CORPORATION			
00A. 12.07.2022		ca0zfa	Date	19.11.2021 CA0ZFA			
			Edit by	13.07.2022	ca0zfa		
			Appr.			FMCP-3P-4CMMP-CPXE	
Modification	Date	Name	Standard	DIRECTIVE 2014/35/EU			



Item	parts	list
	parts	

EN &MPC  Material no.: 23455210 = +				
Material no.: 23455210 = +	EN &MPC	l &MF	EN	
Waterial 110   23433210   +	22455210 =	, =	22455240	Material no :
	23433210 +	+	23433210	Material 110
Project no.: FMCP Master Drawig: 3 Phase, 4 CMMP, CPXE Pg.	FMCP Master Drawig: 3 Phase, 4 CMMP, CPXE Pg.	FMCP Master Drawig : 3 Phase , 4 CMMP , CPXE		Project no.:
Productionorder: 001330719396 Pg. 2	001330719396 Pg.			Productionorder:

# Item parts list

Reference identification	Quantity	Order number	Designation	X-length	Manufacturer	Identcode 1
Placement		Type number		Length [m]		Identcode 2
FU0220	1	9000-41068-0400000	MICO BASIC 8.4 electronic circuit protection 8		Murrelektronik	
=A1+O1&EFS/2.3		MICO Basic 8.4	CHANNELS			
MOT1	1	550138	Servo motor		Festo	
=A1+O1&EFS/22.0		EMMS-AS-140-L-HS-RMB				
MOT2	1	550138	Servo motor		Festo	
=A1+O1&EFS/26.0		EMMS-AS-140-L-HS-RMB				
MOT3	1	550138	Servo motor		Festo	
=A1+O1&EFS/30.0		EMMS-AS-140-L-HS-RMB				
MOT4	1	5242219	Servo motor		Festo	
=A1+O1&EFS/34.0		EMMT-AS-60-L-HS-RMB		12		
PLC1102	1	4252744	control unit		Festo	
=A1+O1&EFS/11.1		CPX-E-CEC-M1-EP				
PSU0210	1	85691	Emparro Power Supply 3-PHASE		Murrelektronik	
=A1+O1&EFS/2.0		85691	V, O			
R1	1	2882343	Braking resistance		Festo	
=A1+O1&EFS/21.1		CACR-KL2-40-W2000				
R2	1	2882343	Braking resistance		Festo	
=A1+O1&EFS/25.1		CACR-KL2-40-W2000				
R3	1	2882343	Braking resistance		Festo	
=A1+O1&EFS/29.1		CACR-KL2-40-W2000				
-SR0510	1	3000-33113-3020060	MIRO SAFE+ T 2 24 24 VAC/DC - 3 N/O contact /	,	Murrelektronik	
=A1+O1&EFS/5.0		MIRO SAFE+ T 2 24	2 N/O contact delayed			
-XF5080	1	4000-73000-0010000	Connector (special)		Murrelektronik	
=A1+O1&EFS/11.4		4000-73000-0010000				

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 Project status
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 Appr.
 FMCP-3P-4CMMP-CPXE

Standard DIRECTIVE 2014/35/EU

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	EN	&MPC		
Material no.:	23455210	=		
Material 110	23433210	+		
Project no.:	FMCP Master Drawig:	FMCP Master Drawig : 3 Phase , 4 CMMP , CPXE		
Productionorder:		001330719396 Pg.		

### Technical notes

Voltage and frequency, as well as the setting points for motor protection and time relays must be checked prior to commissioning.

All terminal screws must be tightened prior to commissioning and during maintenance work

Keep doors closed at all times, as dust and moisture may cause malfunctioning.

The specified cable cross sections are minimum cross section for copper, without taking into account:

a.) Cable lengths and the resulting voltage drops. (Permissible voltage drop for motors according to VDE 0530 5%\* Un )

b.) Type of cable installation and permissible ambient temperature (Installation type reduction factor 0,8 / amb. temp. 20° C)

In the event that operating voltages deviate from the assumed values listed above, correspondingly larger cross-sections must be selected.

(e.g. with increased voltage drop, increased ambient temp., unsuitable type of cable installation, high wiring density)

Sizing of cables is the responsibility of the customer

Air supply:

This controller is designed for a state-of-the-art (ISO 8573-A:2010) compressed air network

We require compressed air that is unlubricated, free of residual oil (residual oil from compressors max. 0.1mg/m³ for "HEES fluids,

biodegradable oils" or max. 5mg/m³ for mineral oils permissible) and appropriately dried

A filter should remove solid contamination from the compressed air. (ISO 8573-A:2010)

Class:

7:4:4 --> 40µm Filter

### Technical data

Reference identification =A1+O1

IP-degree of protection UL Type 1

Ambient temperature +5°C - +35°C

Humidity max. 50%

### **FLA Rating**

CMMP-AS-C15-11A-P3-M3 CMMP-AS-C5-11A-P3-M3

**Power Supply** 0.55 FLA = (3x13) + (2x5.5) + 0.55 = 50.55 A

Sizing of disconnect switch as per UL508A standards section 30.2.2: 63.18 A Amacities of Main supply conductor as per UL508 standard table 28.1:8AWG

#### **Pneumatics**

na Max. system pressure

Working pressure na

Supply air connection Tube .... mm externally calibrated

Working ports according to circuit diagram

# Special feature

No single-core marking no hose designation

## Wire colours used:

Power circuit: Black (BK)

Power circuit (permanent voltage): Yellow (YE) Neutral conductor: Blue (BU)

Green/yellow (GNYE) Protective conductor:

Control circuit AC: Red (RD)

Control circuit DC (+): Dark blue (DBU) Dark blue (DBU) Control circuit DC (-):

excepted circuits: Orange (OG)

### Standards used:

NFPA 79 **Electrical Standard for Industrial Machinery** 

**UL 508A** STANDARD FOR SAFETY Industrial Control Panels

EN 60204-1:2018 Safety of machinery - Electrical equipment of machines -

Part 1: General requirements

Pneumatic fluid power - General rules and safety requirements EN ISO 4414:2010

for systems and their components

# Tel: 1-877-GO-FESTO Fax: 1-877-FX-FESTO CONTROL PANEL

Part # / Project # : FMCP Master Drawig: 3 Phase, 4 CMMP, CPXE

Prod. Order / Serial #: CA\_CS.2178969-A 1330719396

2021 Year of Mfg.

Main Voltage 480 VAC

Largest Motor: 7.8 A

5 KVA Fault Rating: Control Voltage:

Type 1 Panel type: Operating Pressure

Level 4

Level 3

Level 2

Level 1



9

Level No.

-XD5

Terminal No.

# Hose used

PUN-H-.....-BL --> Control cabinet

PUN-H-.....-SW --> Control cabinet outside PUN-H-...-NT --> Condensate drain

PUN-.....-BL --> M5-Series

roject status xxx FESTO CORPORATION 19.11.2021 CA0ZFA Edit by 08.07.2022

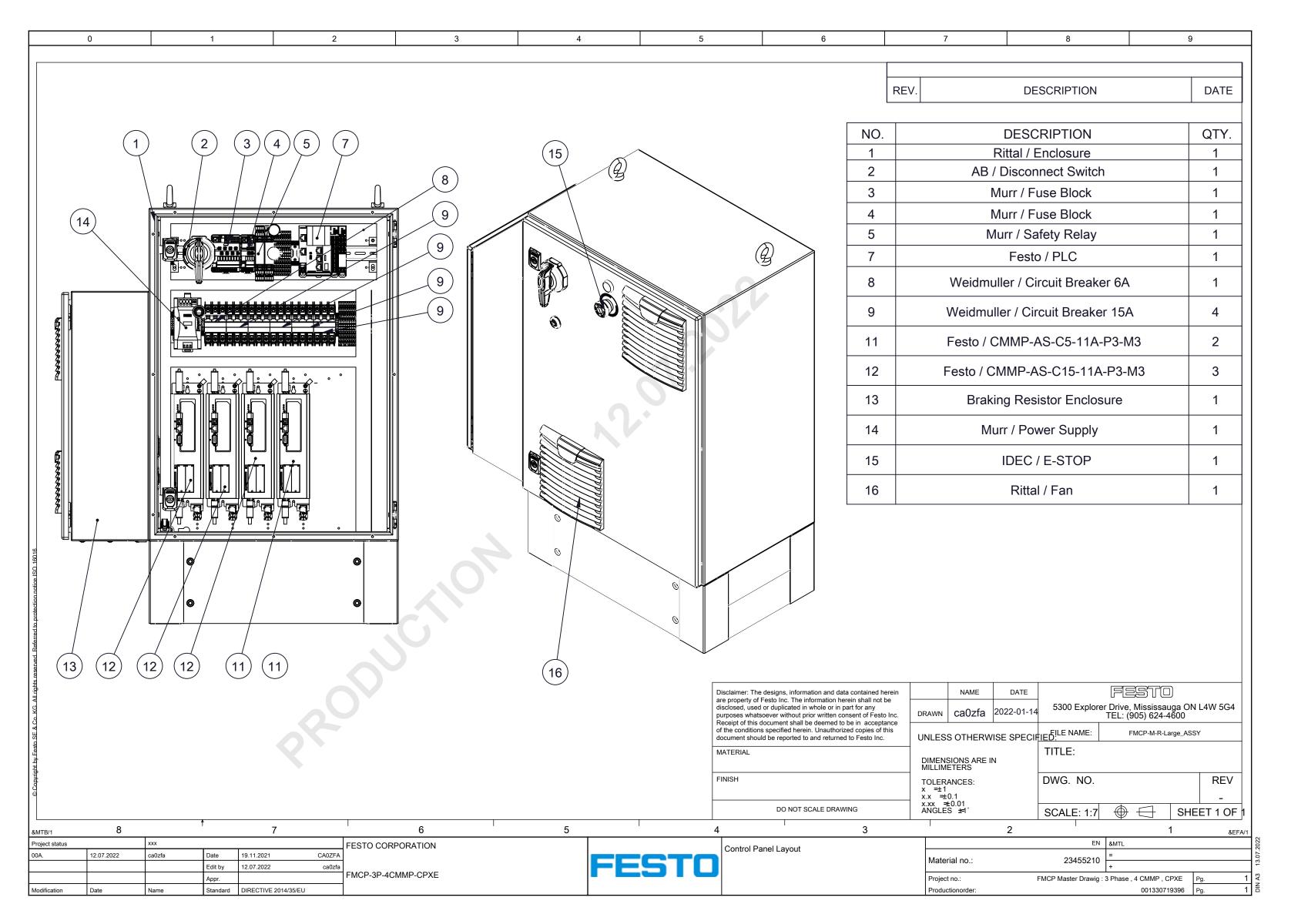
DIRECTIVE 2014/35/EU

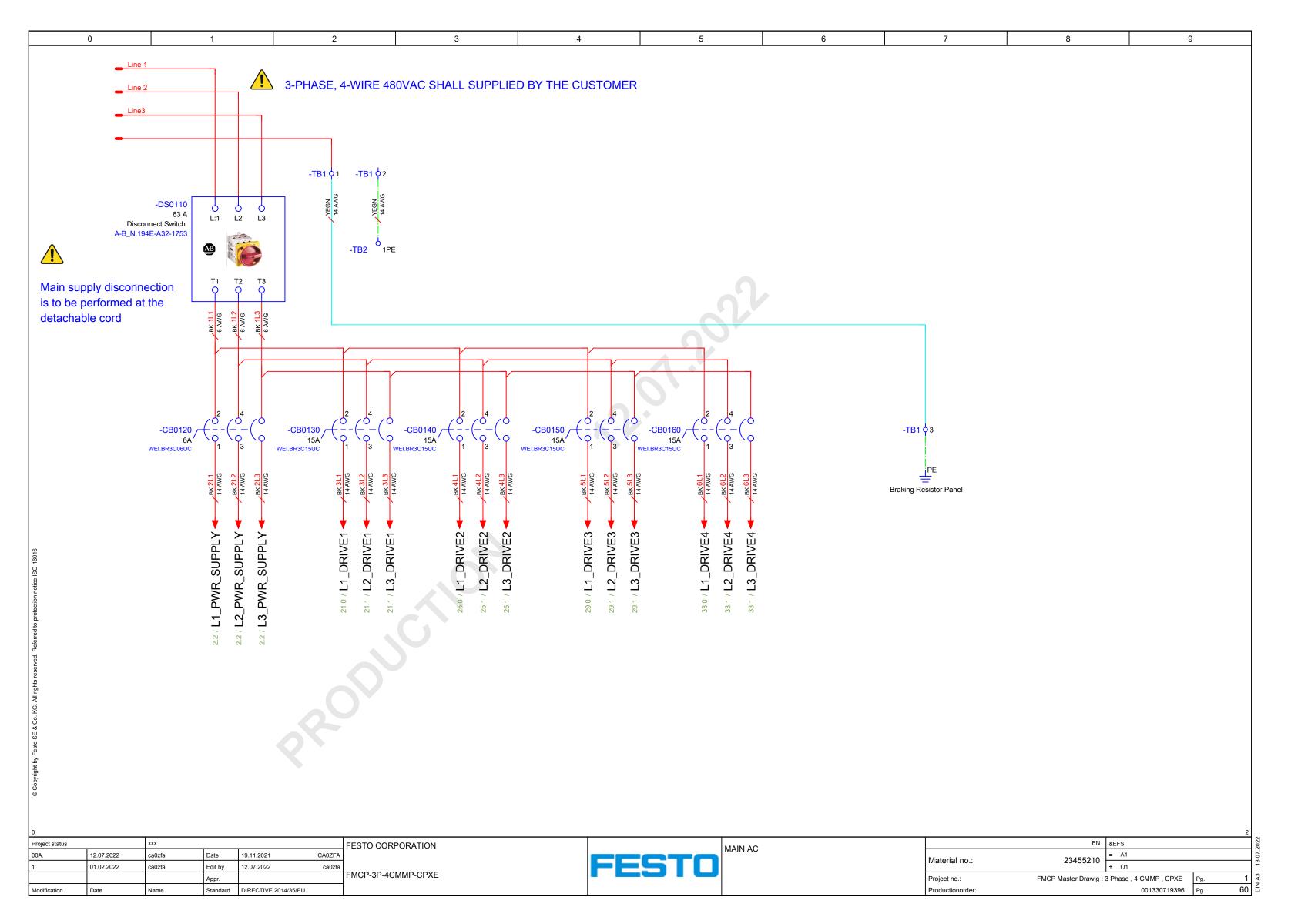
FMCP-3P-4CMMP-CPXE

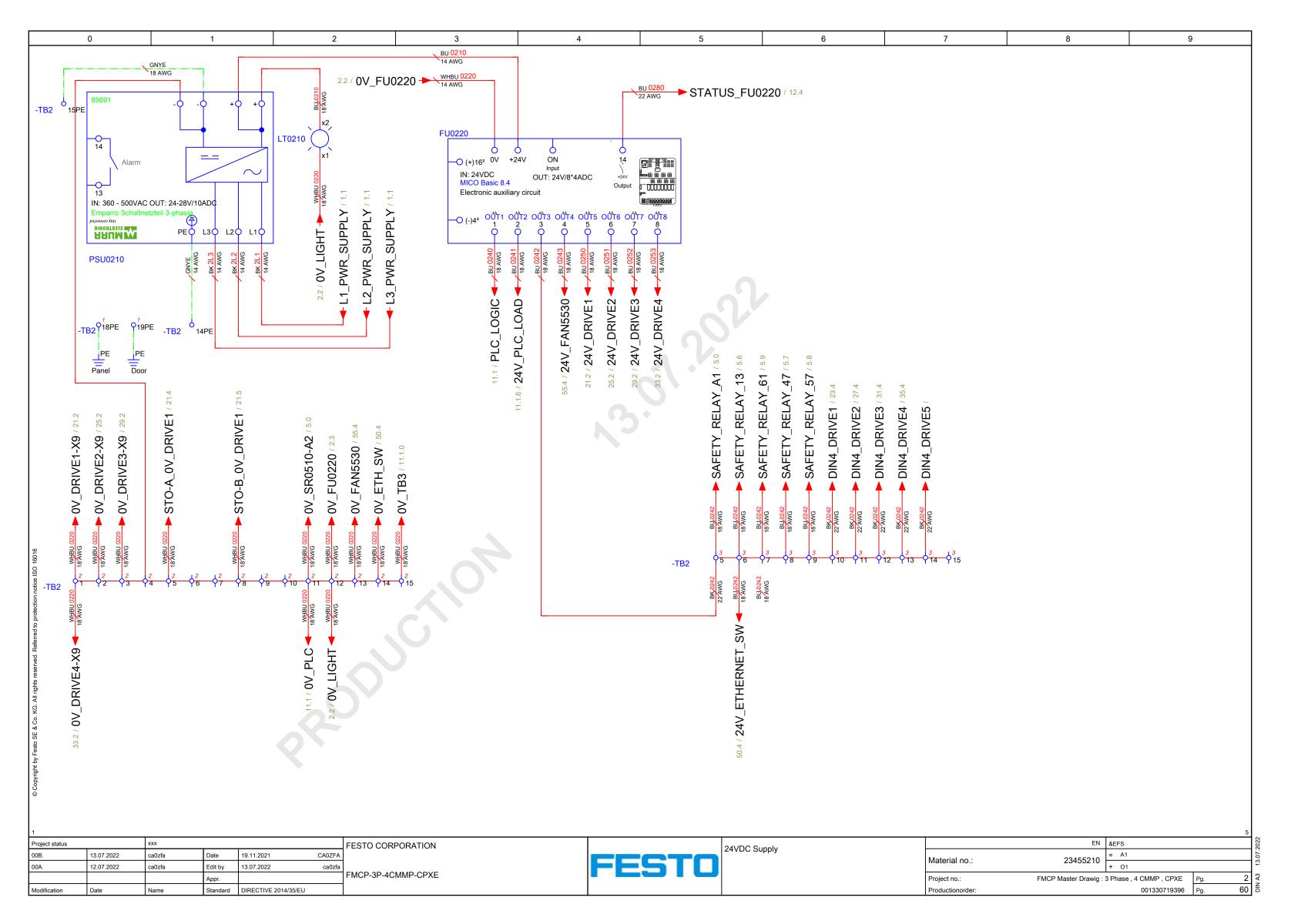


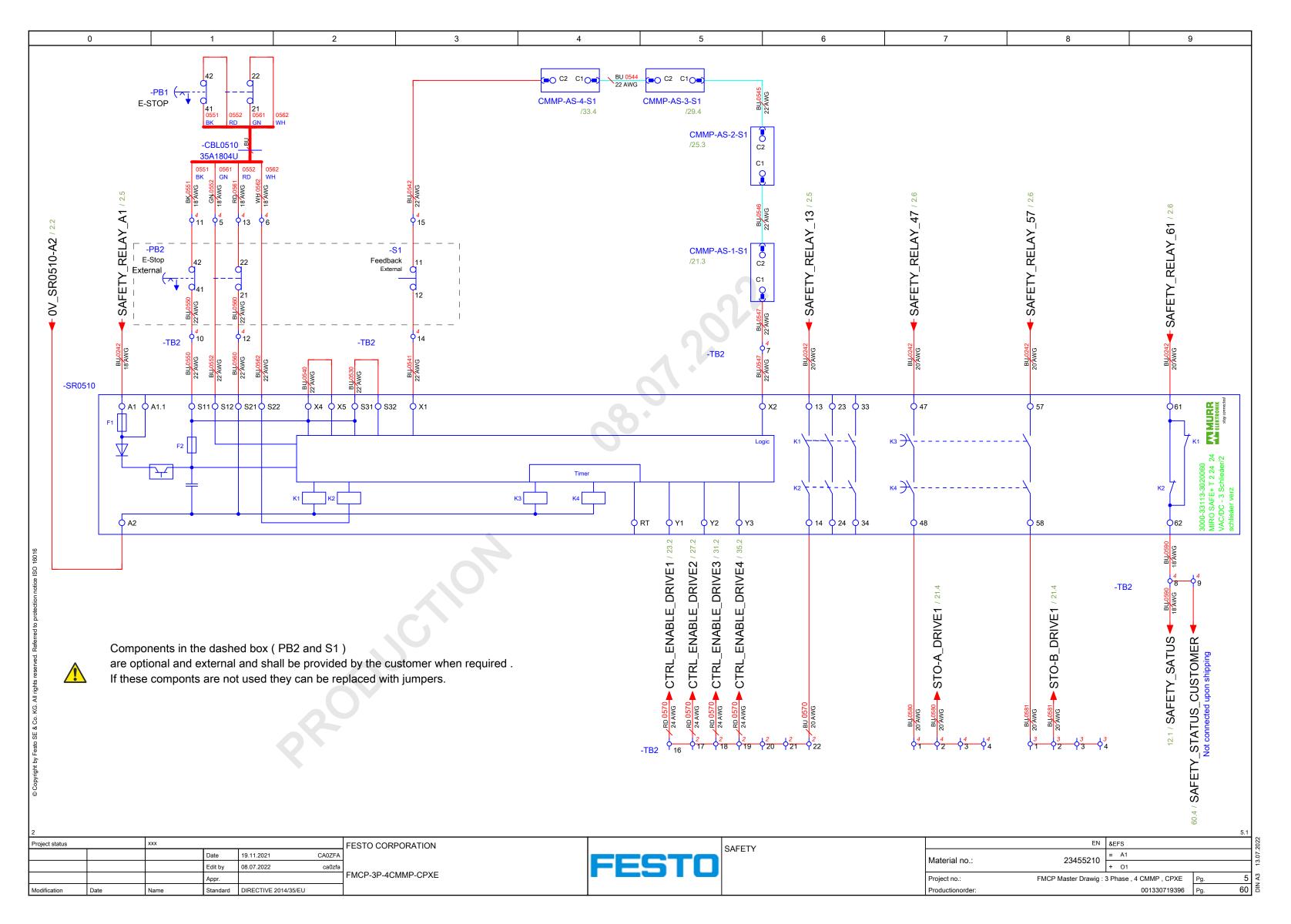
Technical notes

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roject no.:	FMCP Master Drawig:	FMCP Master Drawig: 3 Phase, 4 CMMP, CPXE			l :
roductionorder:		001330719396	Pg.	1	i









# Time setting (see Fig. 3 and 4)



### **DIP** switch settings:

- The DIP switches are located underneath the front cover of the safety-monitoring module (see Fig. 3 and 4).
- Both DIP switches SW 1 (channel 1) and SW 2 (channel 2) must be set identically.
- The DIP switches can be set when the operating voltage is on; however, in order for the setting to be saved in the MIRO SAFE+ T 2 24, the voltage supply must be interrupted for approx. 3 seconds.

FESTO CORPORATION

FMCP-3P-4CMMP-CPXE

• The functionality of the setting must be checked.





Fig. 3

DIP switch setting	Drop-out delay	DIP switch setting	Drop-out delay
ON 1 2 3 4	<0,1 s	ON 1 2 3 4	5.0 s
1 2 3 4	0.5 s	1 2 3 4	8.5 s
0N 1 2 3 4	1.0 s	ON 1 2 3 4	10.0 s
ON 1 2 3 4	1.5 s	1 2 3 4	12.0 s
ON 1 2 3 4	2.0 s	ON 1 2 3 4	15.0 s
ON 1 2 3 4	2.5 s	ON 1 2 3 4	20.0 s
DN 1 2 3 4	3.0 s	ON 1 2 3 4	25.0 s
0N 1 2 3 4	4.0 s	0N 1 2 3 4	30.0 s

PANEL WILL BE SHIPPED WITH THE SETTING MARKED ABOVE

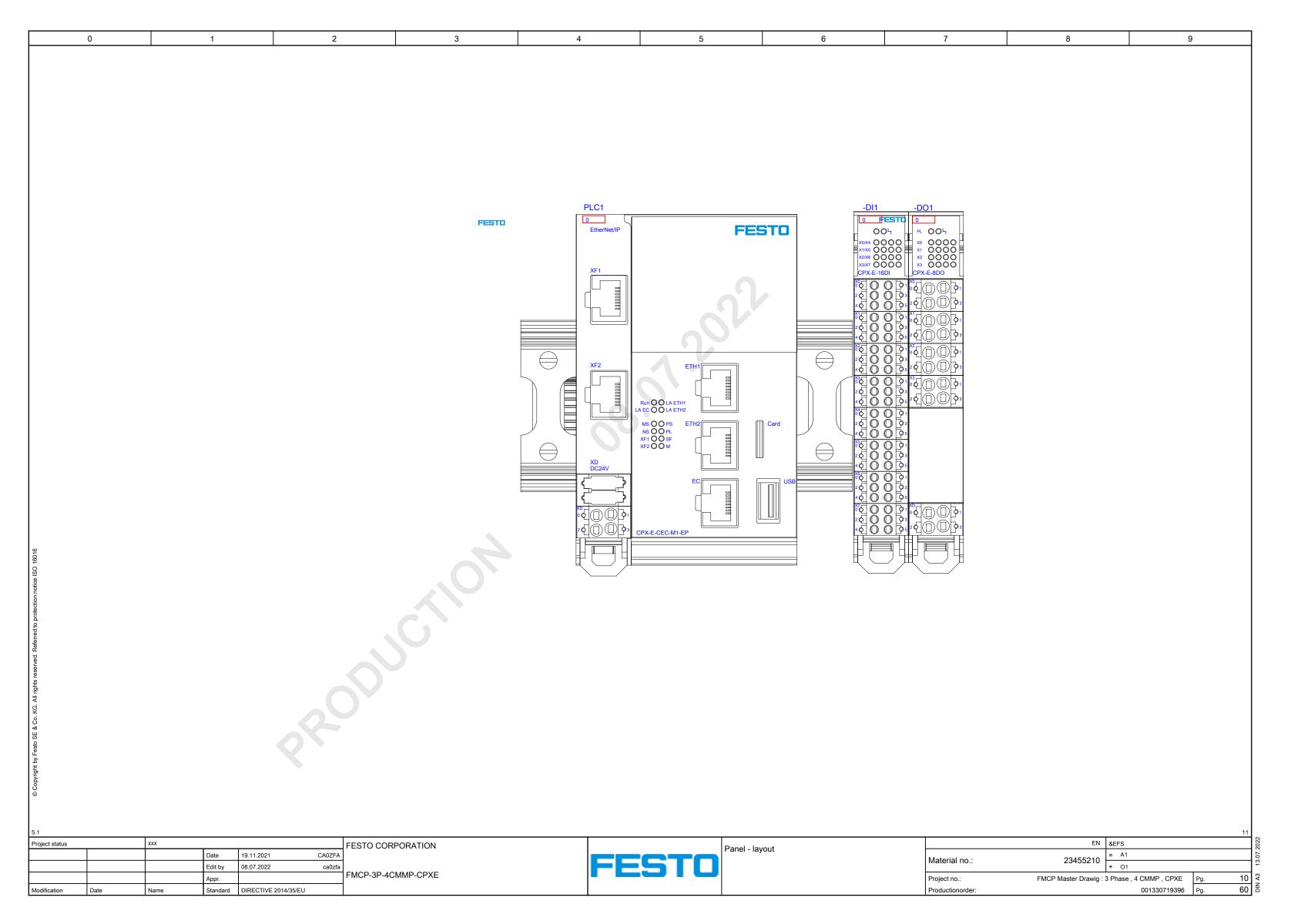
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Project status		xxx				
			Date	19.11.2021	CA0ZFA	
			Edit by	08.07.2022	ca0zfa	
			Appr.			
Modification	Date	Name	Standard	DIRECTIVE 2014/35/EU		

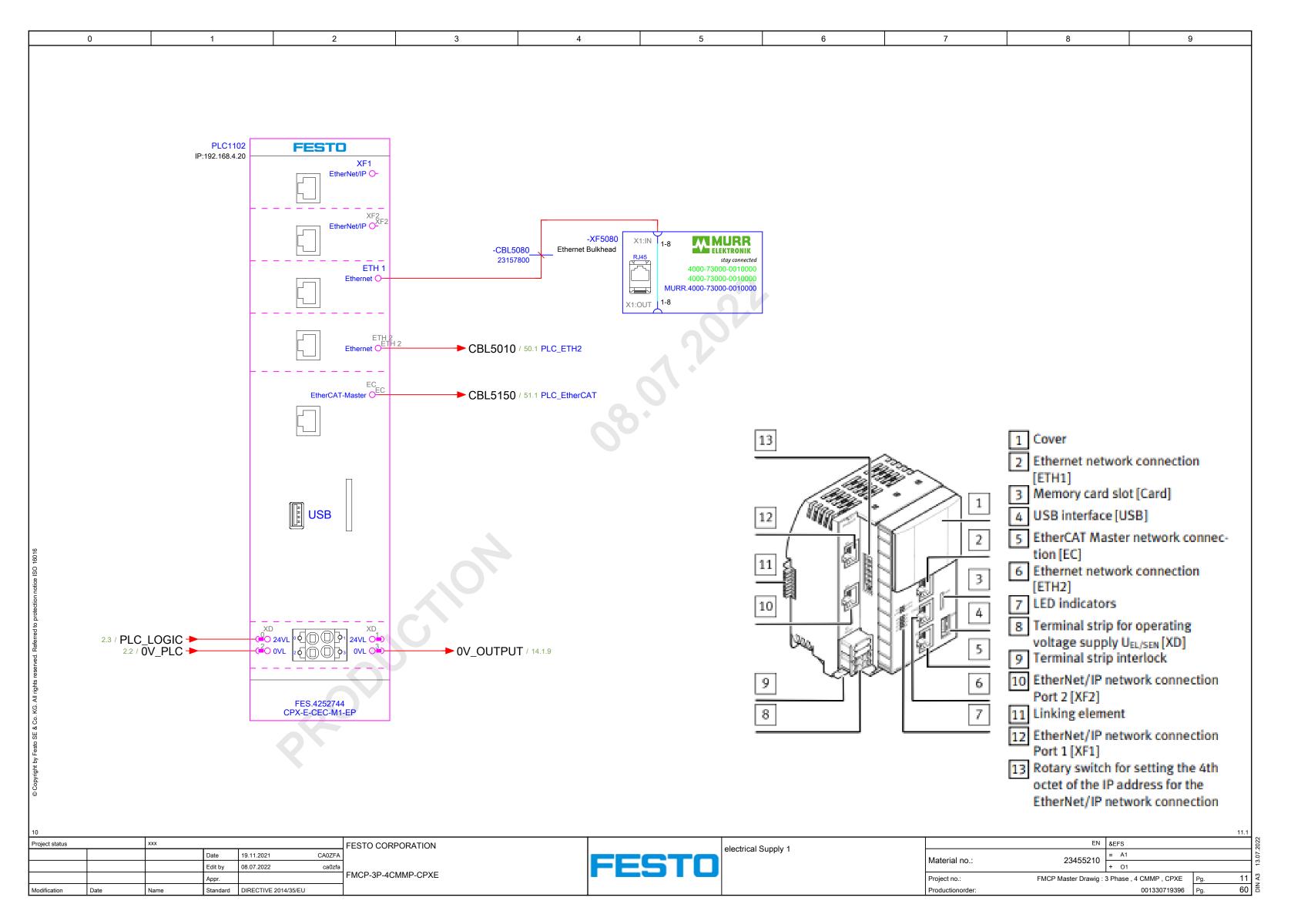


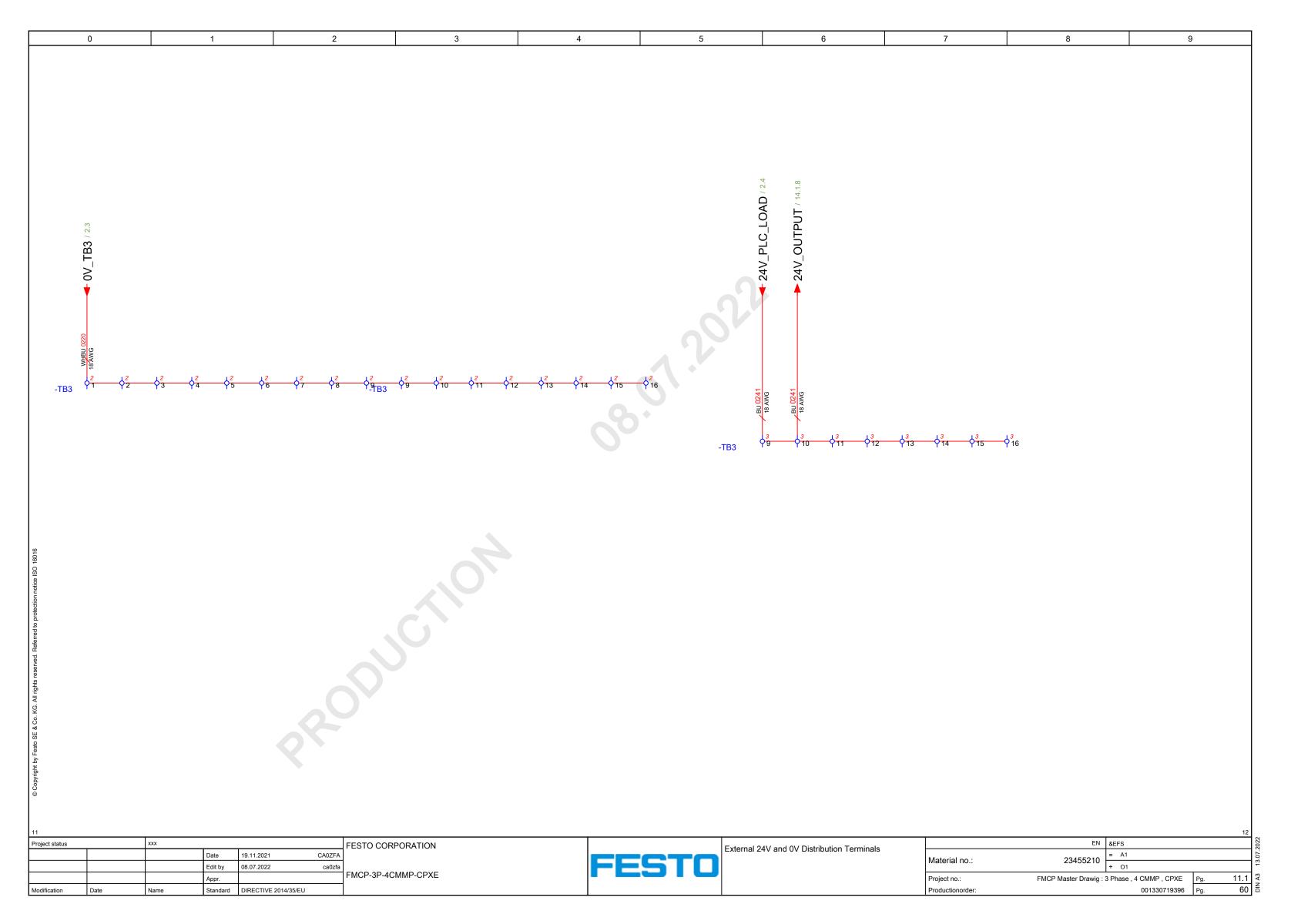
	SAFETY RELAY CONFIGURATION
J	SAFETY RELAY CONFIGURATION

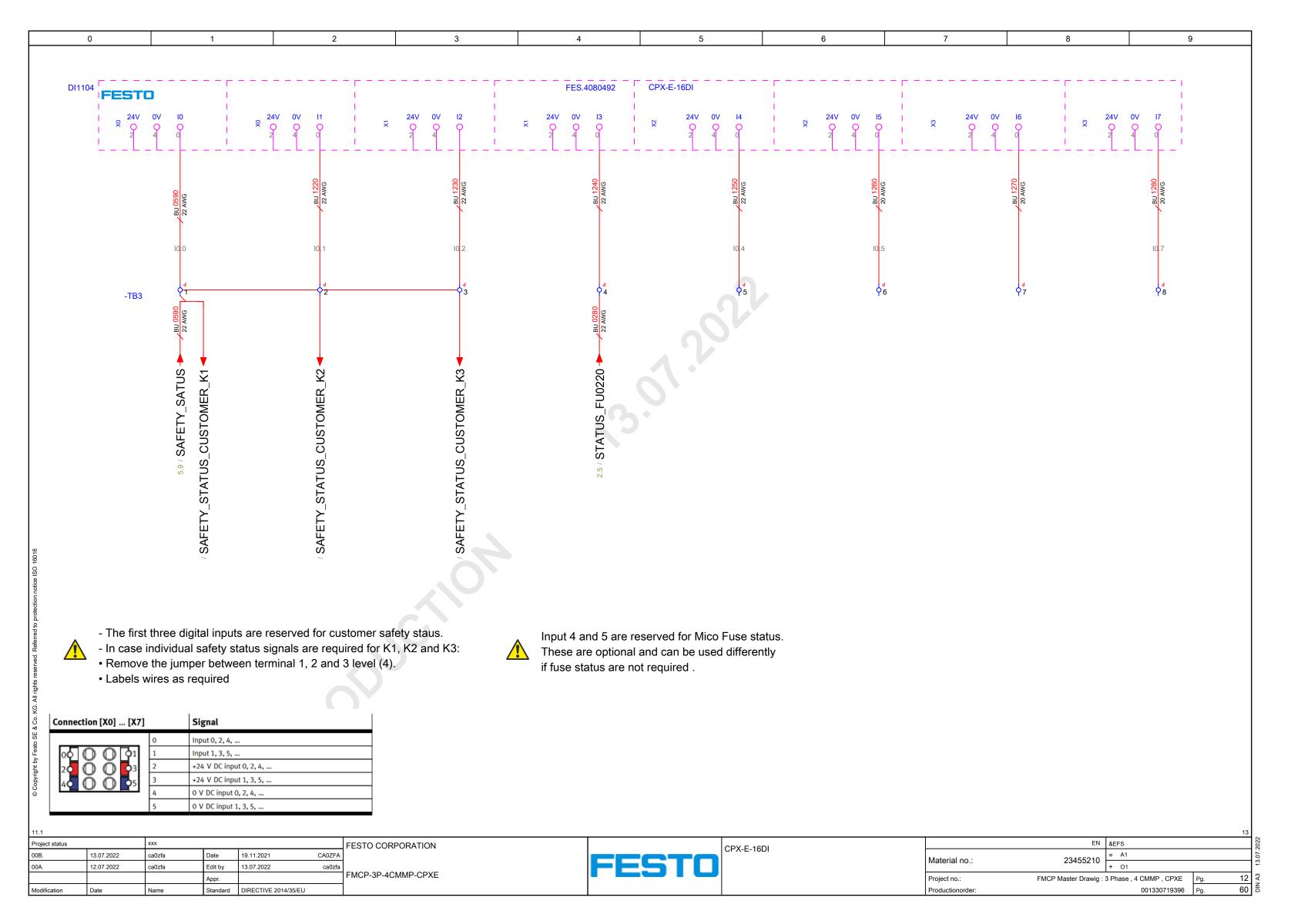
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Material no.:	23455210	= A1			07
Wateriai IIO	. 23433210	+ 01			1,3
Project no.:	FMCP Master Drawig:	Pg.	5.1	A3	
Productionorder:	001330719396			60	É

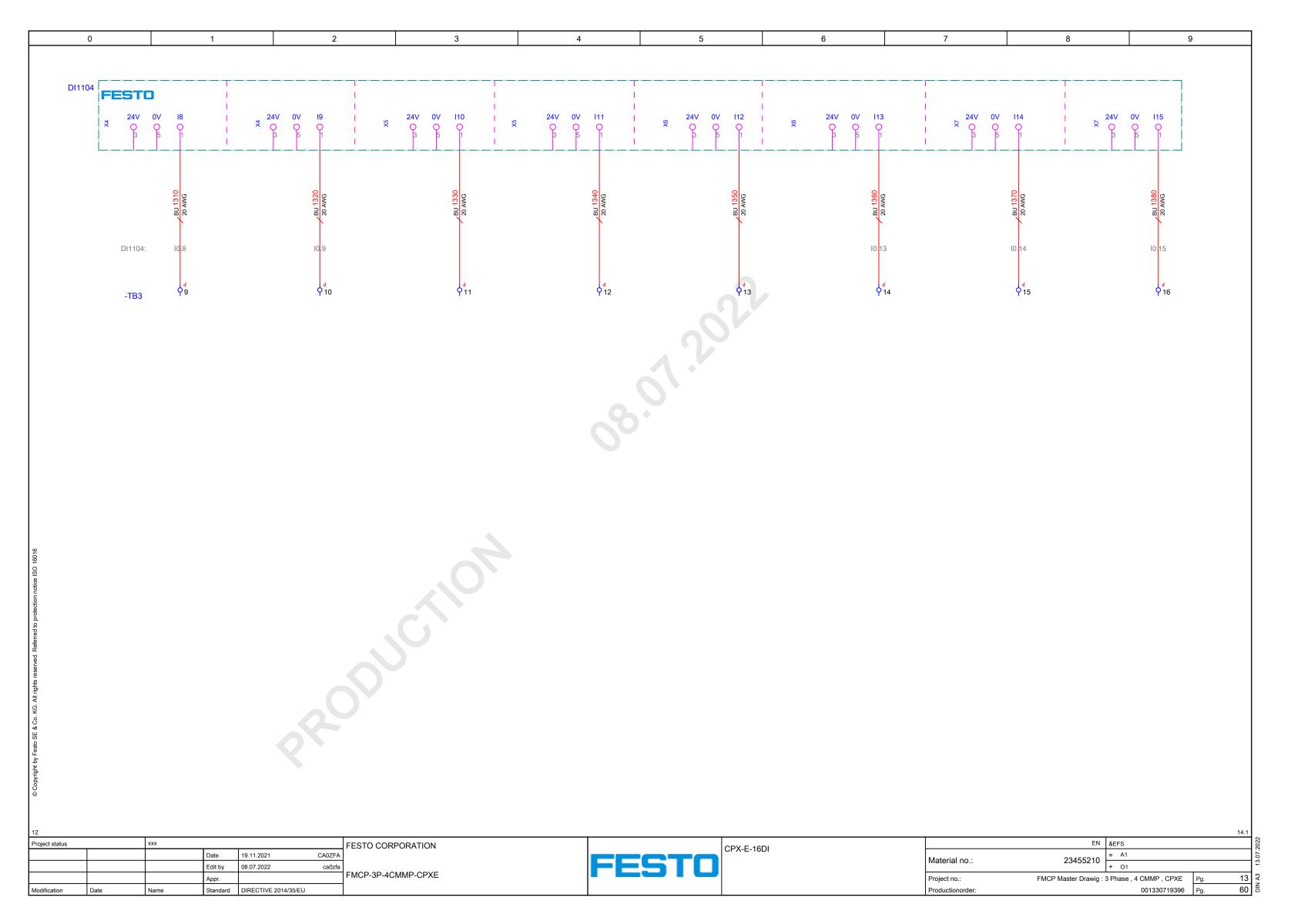
(G. All rights reserved. Referred to protection notice ISO 1601

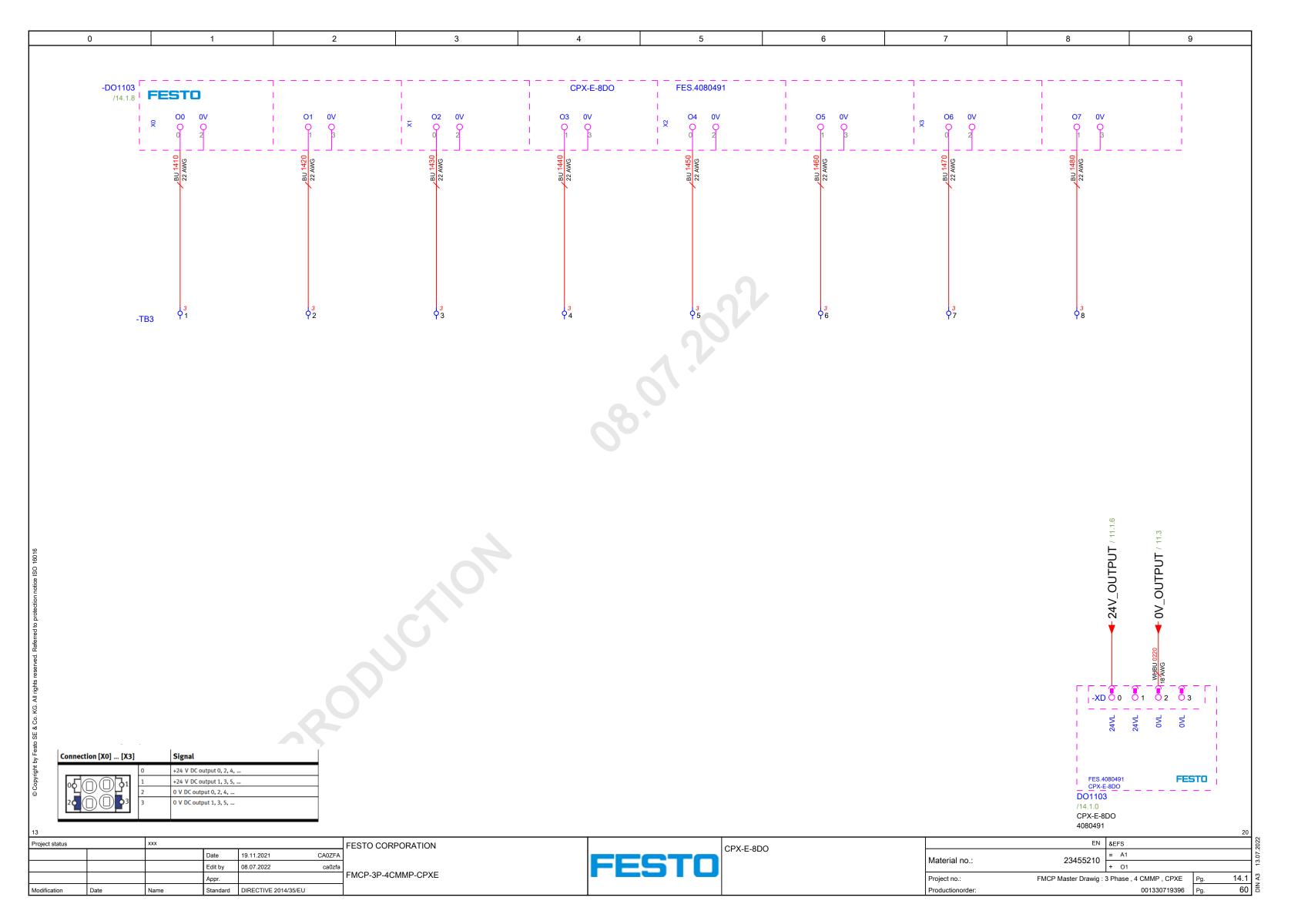








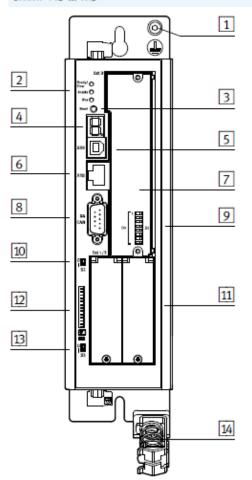




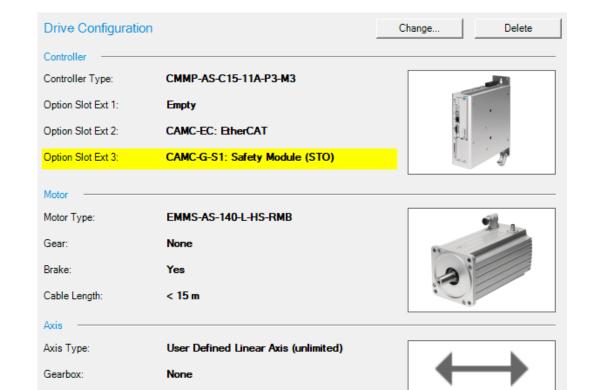
1 2 3 4 5 6 7 8 9 10

#### View of motor controller

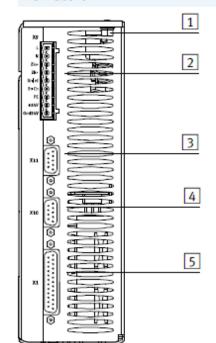
CMMP-AS-...-M3



- PE connection
- 2 LEDs
- 3 Reset button
- 4 7-segment display
- 5 X19 USB interface
- 6 X18 Ethernet interface
- 7 Slot for switch or safety module
- 8 X4 CANopen interface
- N4 CANOPER III CEI IAC
- 9 Fieldbus settings
- Activation of CANopen terminating resistor
- 11 Slots for extension modules
- 12 SD/MMC card slot
- 13 Activation of firmware download
- 14 Screened connection



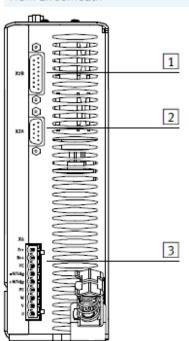
#### From above



- 1 PE connection
- 2 X9 power supply
- 3 X11 incremental encoder interface (output)
- X10 incremental encoder interface (input)
- 5 X1 I/O interface

DIRECTIVE 2014/35/EU

#### From underneath



- 1 X2B encoder connection
- 2 X2A resolver connection
- 3 X6 motor connection

# Device properties

Devicename: Drive1

Devicetype: CMMP-AS-M3

Serialnumber: 90691 Product Key: unknown Partnumber: 1501325 NOC: unknown

Firmware: 4.0.1501.2.4

DHCP: no

| IP Address: 192.168.4.21 | IP Netmask: 255.255.255.0 | Gateway: 192.168.0.82 | DNS: 192.168.0.82 | MAC: 00:0E:F0:0C:62:43

Generic info: 00:00:00:00:00:00

00:00:00:00:00:00

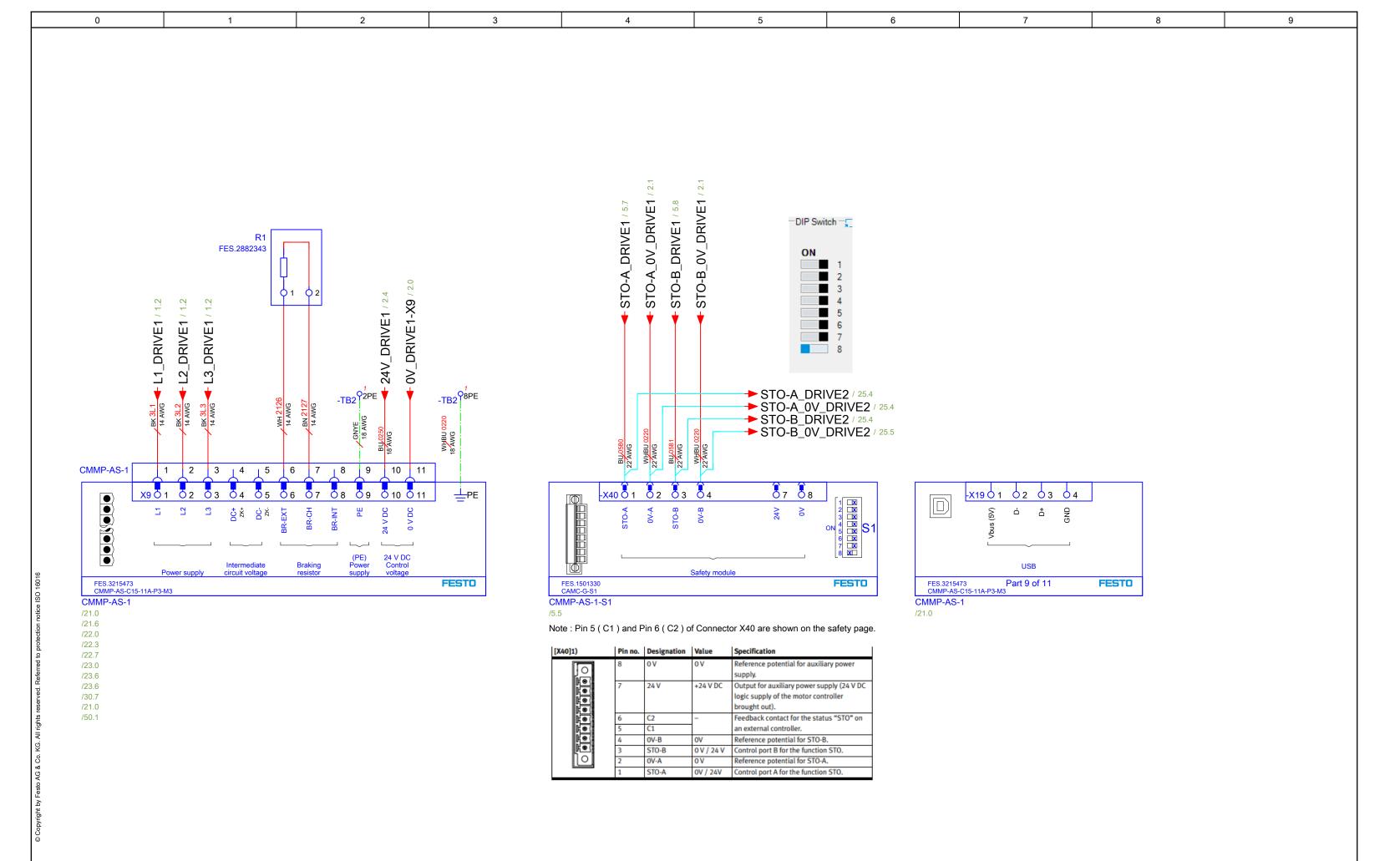
	14.1					
Project status		xxx				
				Date	19.11.2021	CA0ZFA
				Edit by	08.07.2022	ca0zfa

FESTO CORPORATION

FMCP-3P-4CMMP-CPXE



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I Wateriai 110	23433210	+ 01			,
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Productionorder:		001330719396	Pg.	60	ĺ



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 FESTO CORPORATION

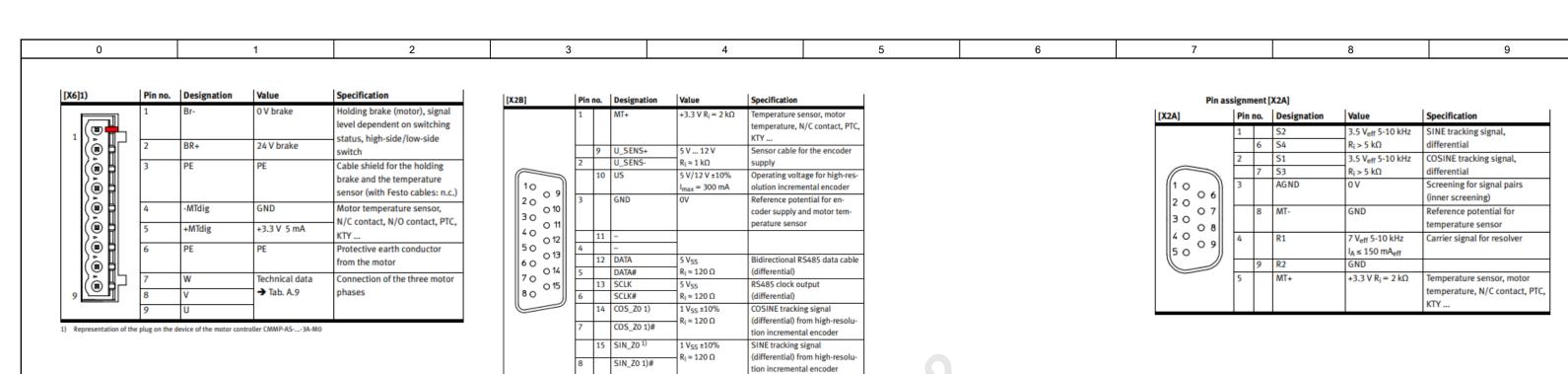
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 Date
 19.11.2021
 CA0ZFA
 FMCP-3P-4CMMP-CPXE

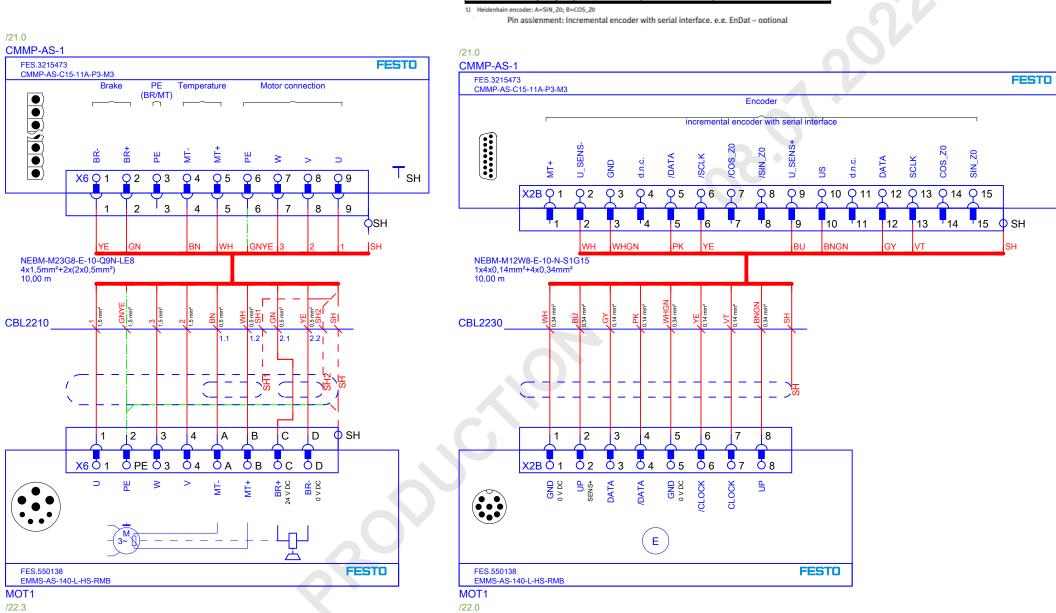
 Modification
 Date
 Name
 Standard
 DIRECTIVE 2014/35/EU
 FMCP-3P-4CMMP-CPXE

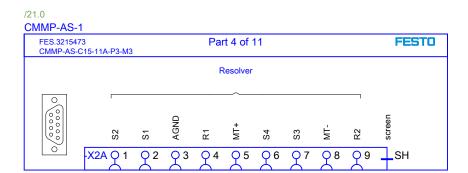


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ΓIV	<b>leRoMatstner</b> :Drawig:3 Phase,4 CMMP,CPXE	+ 01				13
	Productionorder:		001330719396	Pg.	21	A3
	Productionorder.		001330719396	Б.	60	ΙŽ

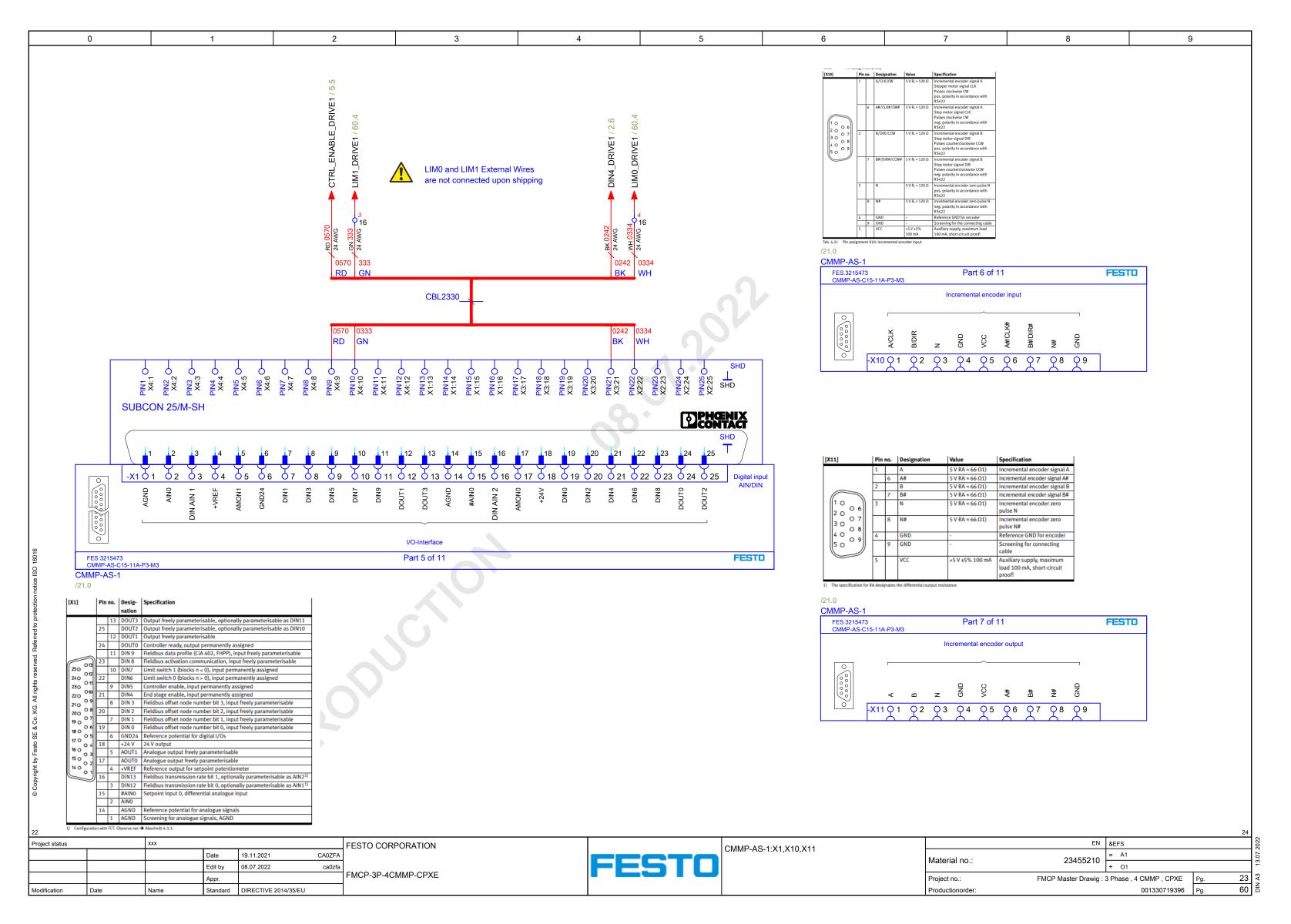
60 E







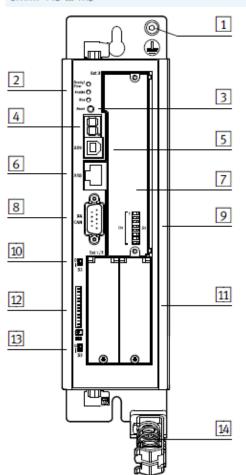
Project status xxx FESTO CORPORATION EN &EFS CMMP-AS-1:X6,X2B,X2A CA0ZFA 19.11.2021 = A1 FESTO 23455210 Material no.: Edit by 08.07.2022 FMCP-3P-4CMMP-CPXE 22 FMCP Master Drawig: 3 Phase, 4 CMMP, CPXE Project no.: 60 Name Standard DIRECTIVE 2014/35/EU Productionorder 001330719396 Modification Date



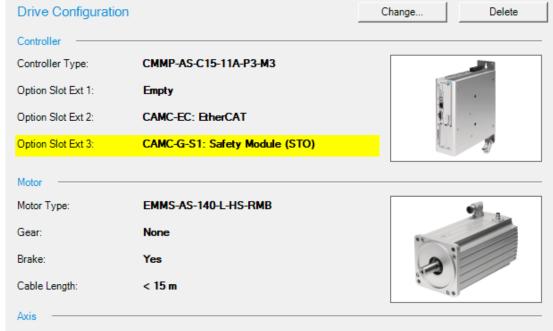
1 2 3 4 5 6 7 8 9 10

#### View of motor controller

CMMP-AS-...-M3

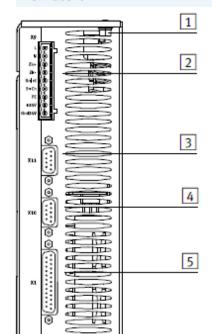


- 1 PE connection
- 2 LEDs
- 3 Reset button
- 4 7-segment display
- 5 X19 USB interface
- 6 X18 Ethernet interface
- 7 Slot for switch or safety module
- 8 X4 CANopen interface
- 9 Fieldbus settings
- 10 Activation of CANopen terminating resistor
- [11] Slots for extension modules
- 12 SD/MMC card slot
- 13 Activation of firmware download
- 14 Screened connection



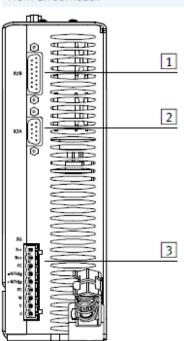


#### From above



- PE connection
- 2 X9 power supply
- 3 X11 incremental encoder interface (output)
- X10 incremental encoder interface (input)
- 5 X1 I/O interface

#### From underneath



1 X2B encoder connection

Axis Type:

- 2 X2A resolver connection
- 3 X6 motor connection

### Device properties

Devicename: Drive2
Devicetype: CMMP-AS-M3
Serialnumber: 89831
ProductKey: unknown
Partnumber: 1501325
NOC: unknown
Firmware: 4.0.1501.2.4

User Defined Linear Axis (unlimited)

DHCP:

 IP Address:
 192.168.4.22

 IP Netmask:
 255.255.255.0

 Gateway:
 192.168.0.82

 DNS:
 192.168.0.82

 MAC:
 00:0E:F0:0C:5E:E7

Generic info: 00:00:00:00:00:00

00:00:00:00:00:00

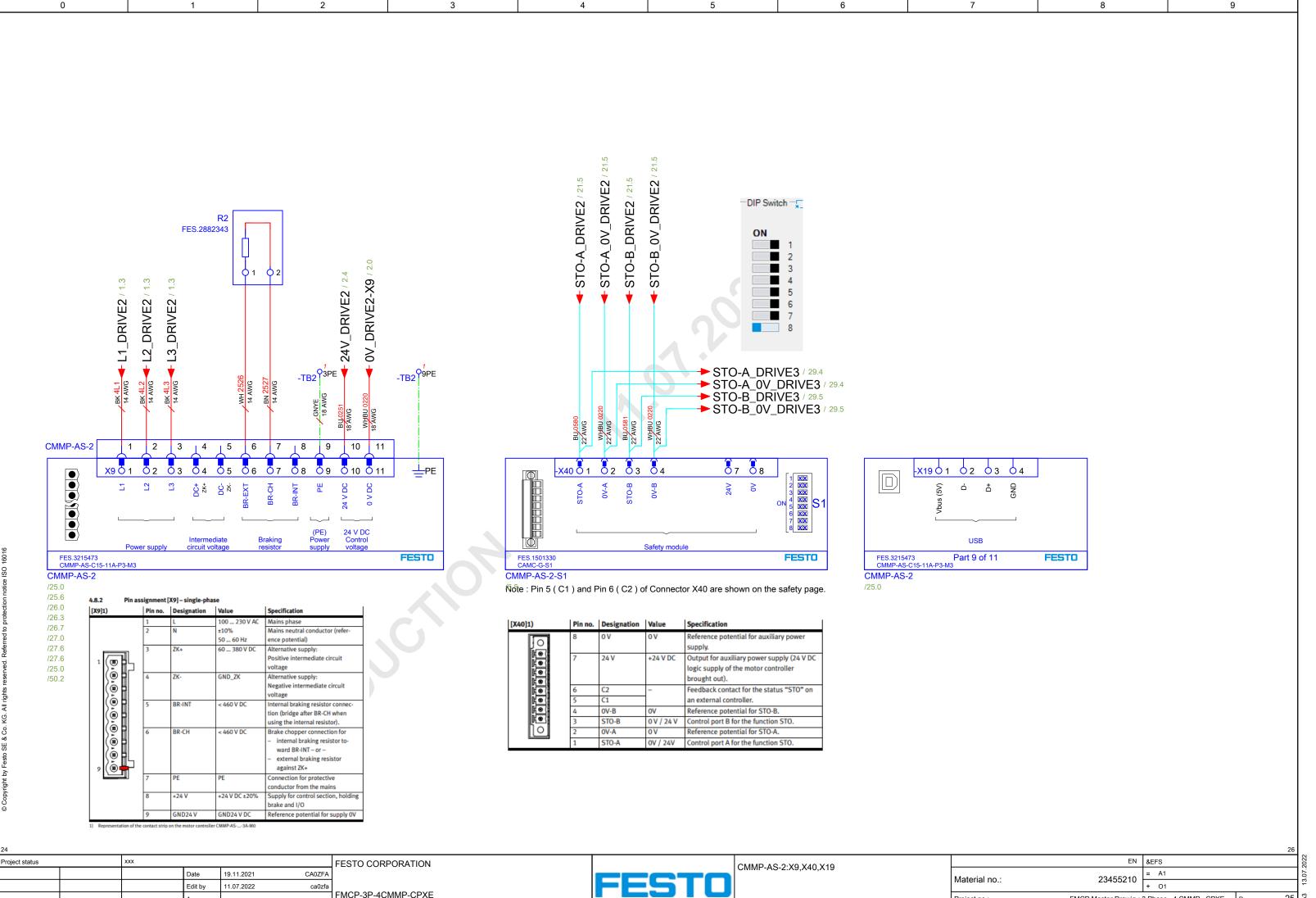
23					
Project status		xxx			
			Date	19.11.2021	CA0ZFA
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Modification	Date	Name	Standard	DIRECTIVE 2014/35/EU	

FMCP-3P-4CMMP-CPXE

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Material no.:	23455210	= A1		
Material 110	23433210	+ 01		
Project no.:	FMCP Master Drawig:	3 Phase , 4 CMMP , CPXE	Pg.	24
Productionorder:		001330719396	Pg.	60



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DIRECTIVE 2014/35/EU

FMCP-3P-4CMMP-CPXE

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Standard

Name

Modification

Date

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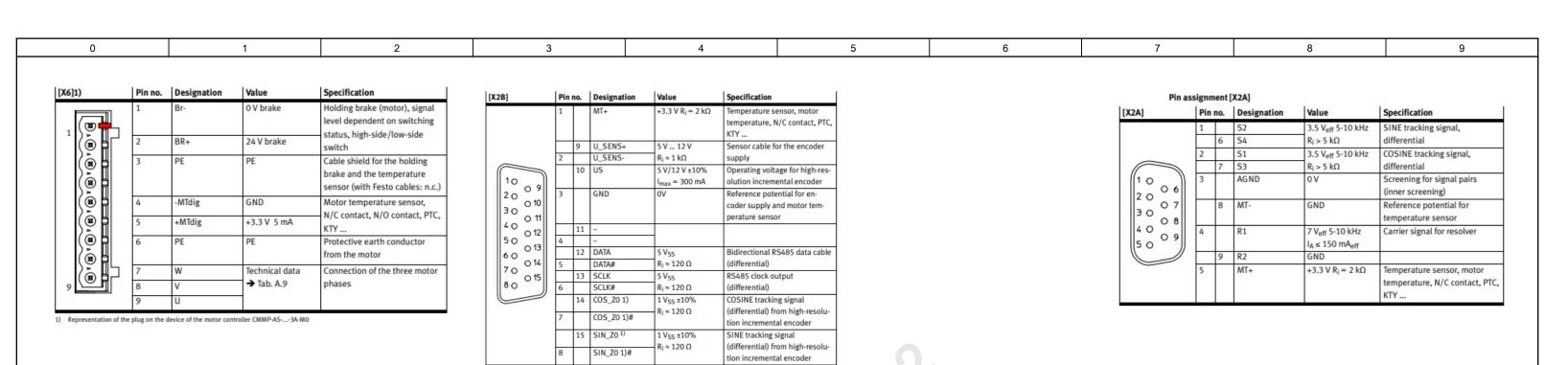
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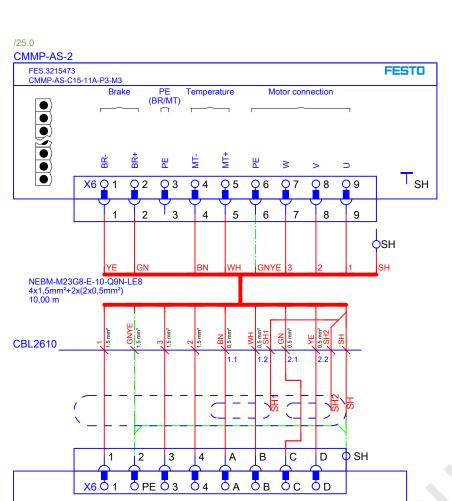
FMCP Master Drawig : 3 Phase , 4 CMMP , CPXE

001330719396

Material no.:

Project no.:



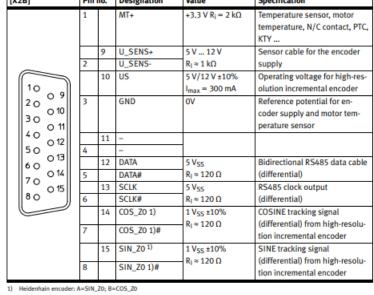


**FESTO** 

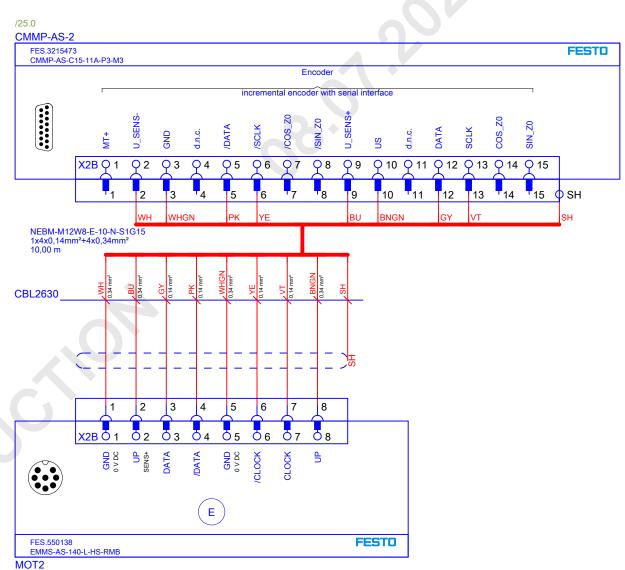
/26.0

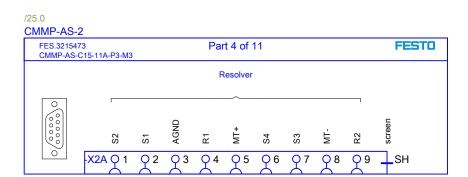
FESTO CORPORATION

FMCP-3P-4CMMP-CPXE



Pin assignment: Incremental encoder with serial interface. e.g. EnDat – optional





23					
Project status		xxx			
			Date	19.11.2021	CA0Z
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			Appr.		
Modification	Date	Name	Standard	DIRECTIVE 2014/35/EU	

FES.550138 EMMS-AS-140-L-HS-RMB

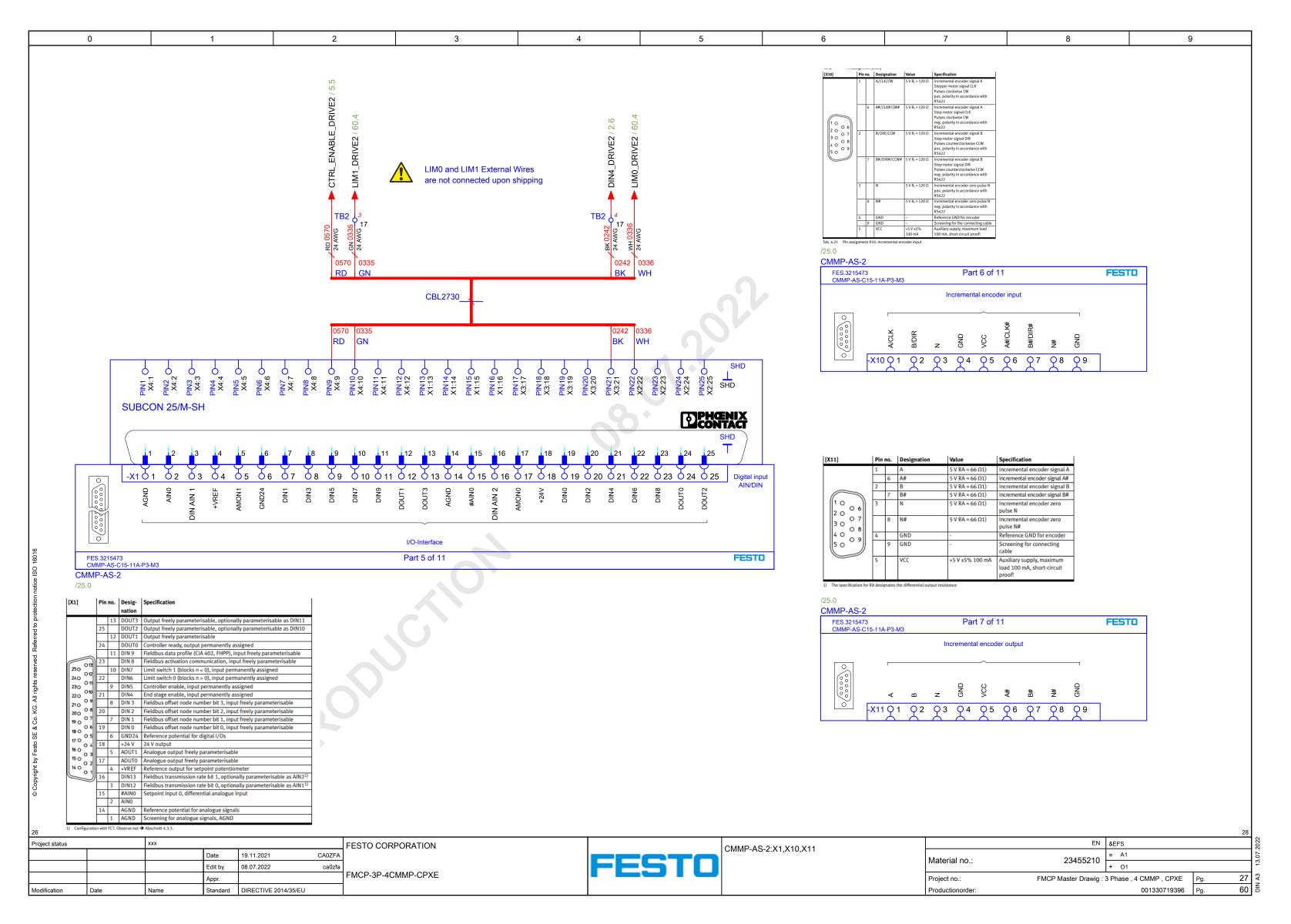
MOT2

/26.3

CMMP-AS-

2.V6 V2B V2A		EN	&EFS
S-2:X6,X2B,X2A	Material no.:	23455210	= A1
	iviateriai no	23433210	+ 01

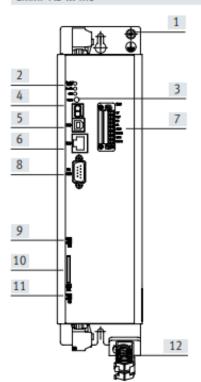
26 Project no.: FMCP Master Drawig: 3 Phase, 4 CMMP, CPXE 60 001330719396



10 2 3 4 5 6 7 8 9

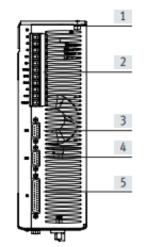
#### View of motor controller

CMMP-AS-...-M0



- [1] PE connection
- [2] LEDs
- [3] Reset button
- [4] Seven-segment display
- [5] X19 USB interface
- [6] X18 Ethernet interface
- [7] X40 digital I/O interface for controlling the STO function
- [8] X4 CANopen interface
- [9] Activation of CANopen terminating resistor
- [10] SD/MMC card slot
- [11] Activation of firmware download
- [12] Shield connection

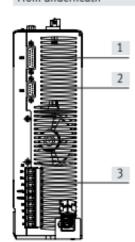
#### From above



- [1] PE connection
- [2] X9 power supply
- [3] X11 incremental encoder interface (output)
- [4] X10 incremental encoder interface (input)
- [5] X1 I/O interface

Standard DIRECTIVE 2014/35/EU

#### From underneath



- [1] X2B encoder connection
- [2] X2A resolver connection
- [3] X6 motor connection

### **Drive Configuration**

### Controller

Controller Type: CMMP-AS-C15-11A-P3-M3

Option Slot Ext 1: **Empty** 

Option Slot Ext 2: CAMC-EC: EtherCAT

Option Slot Ext 3: CAMC-G-S1: Safety Module (STO)



EMMS-AS-140-L-HS-RMB Motor Type:

Gear: None Yes Brake: Cable Length  $< 15 \, \mathrm{m}$ 



Delete

Change.

Axis

User Defined Linear Axis (unlimited) Axis Type:

None Gearbox:



### Device properties

Devicename: Drive3 CMMP-AS-M3 Devicetype: 89832 Serialnumber: ProductKey: unknown Partnumber: 1501325 NOC: unknown Firmware: 4.0.1501.2.4

DHCP:

IP Address: 192.168.4.23 IP Netmask: 255.255.255.0 Gateway: 192.168.0.82 DNS: 192.168.0.82 MAC: 00:0E:F0:0C:5E:E8

Generic info: 00:00:00:00:00:00 00:00:00:00:00:00

27				
Project status	xxx			
		Date	19.11.2021	CA0ZF
		Edit by	08.07.2022	ca0z

FESTO CORPORATION

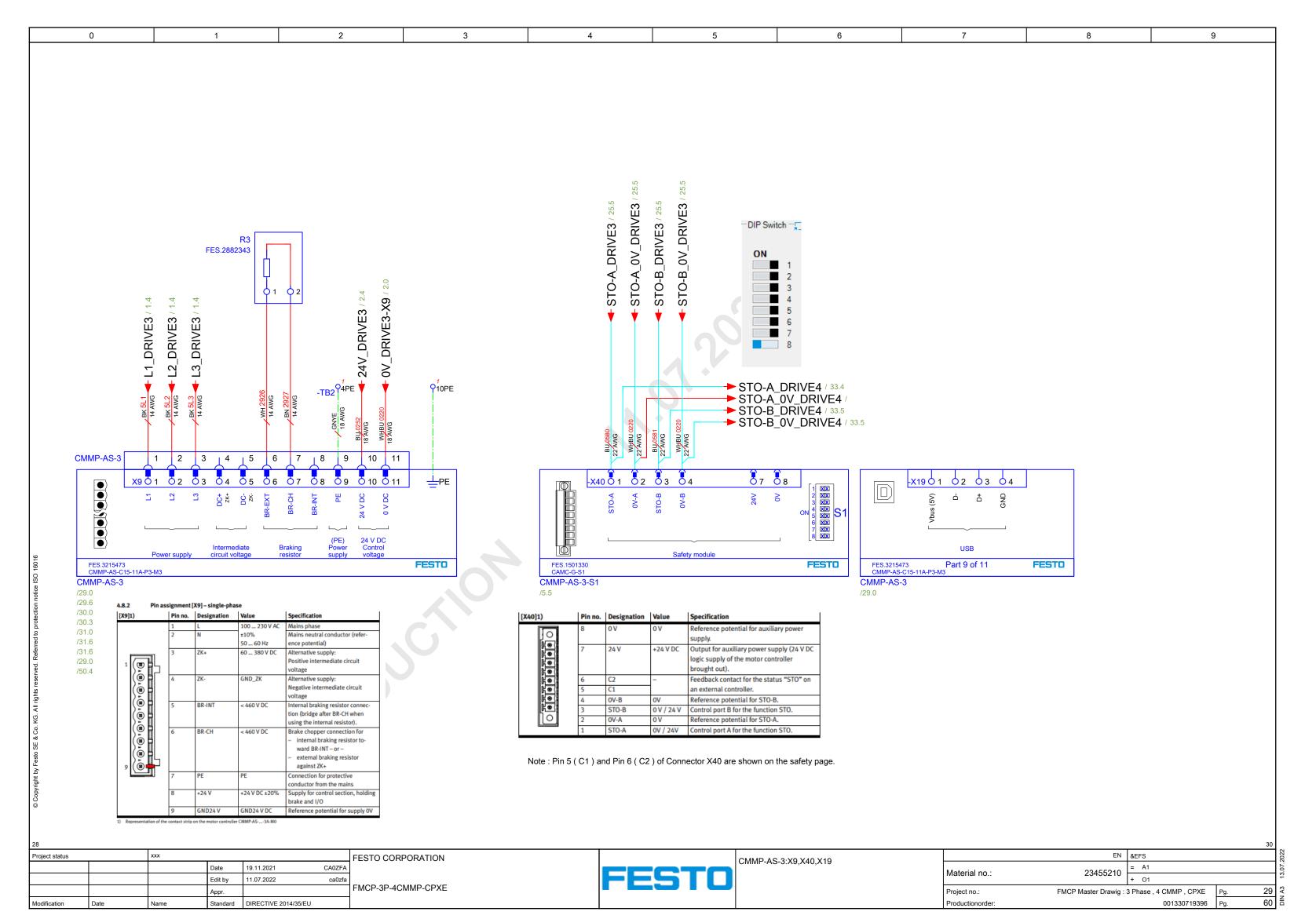
FMCP-3P-4CMMP-CPXE

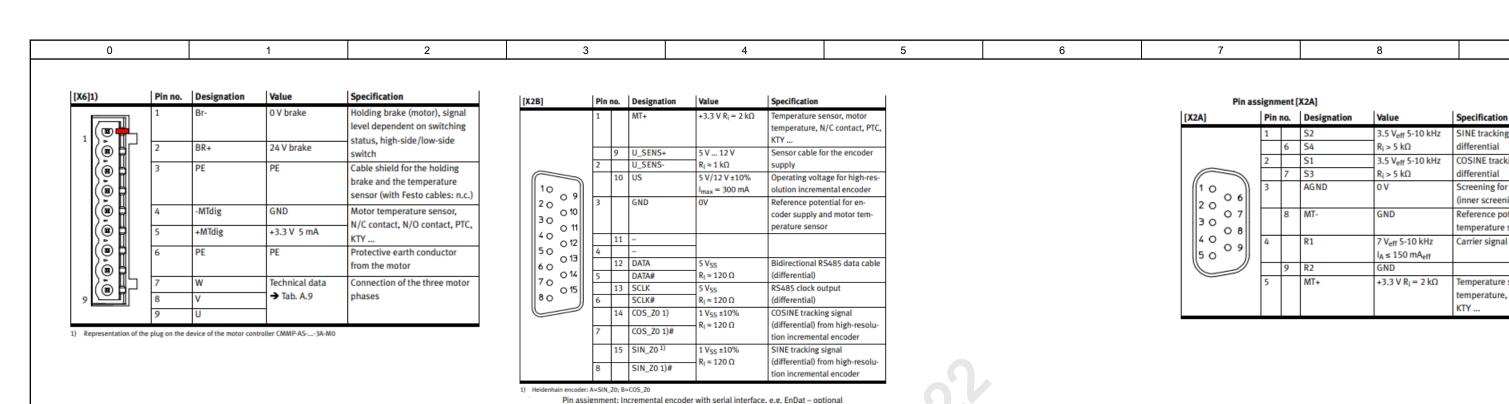


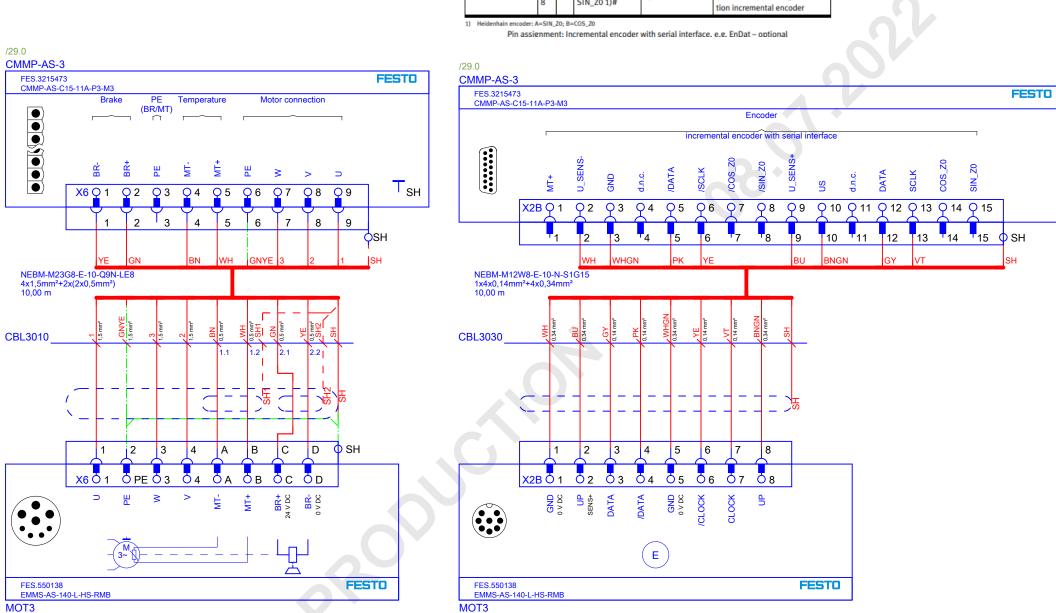
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N		EN	&EFS		
eW	Material no.:	23455210	= A1		
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	Project no.:	FMCP Master Drawig :	3 Phase , 4 CMMP , CPXE	Pg.	28

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/30.0

/30.3

/21.0 CMMP-AS-1 FES.3215473 CMMP-AS-C15-11A-P3-M3 Part 4 of 11 **FESTO** Resolver Ĕ 83 Ė S 5 S4 **R**2 X2A Q 1 Q 2 Q 3 Q 4 Q 5 Q 6 Q 7 Q 8 Q 9 L SH

9

SINE tracking signal,

COSINE tracking signal,

Screening for signal pairs

inner screening)

Reference potential for

Carrier signal for resolver

Temperature sensor, motor

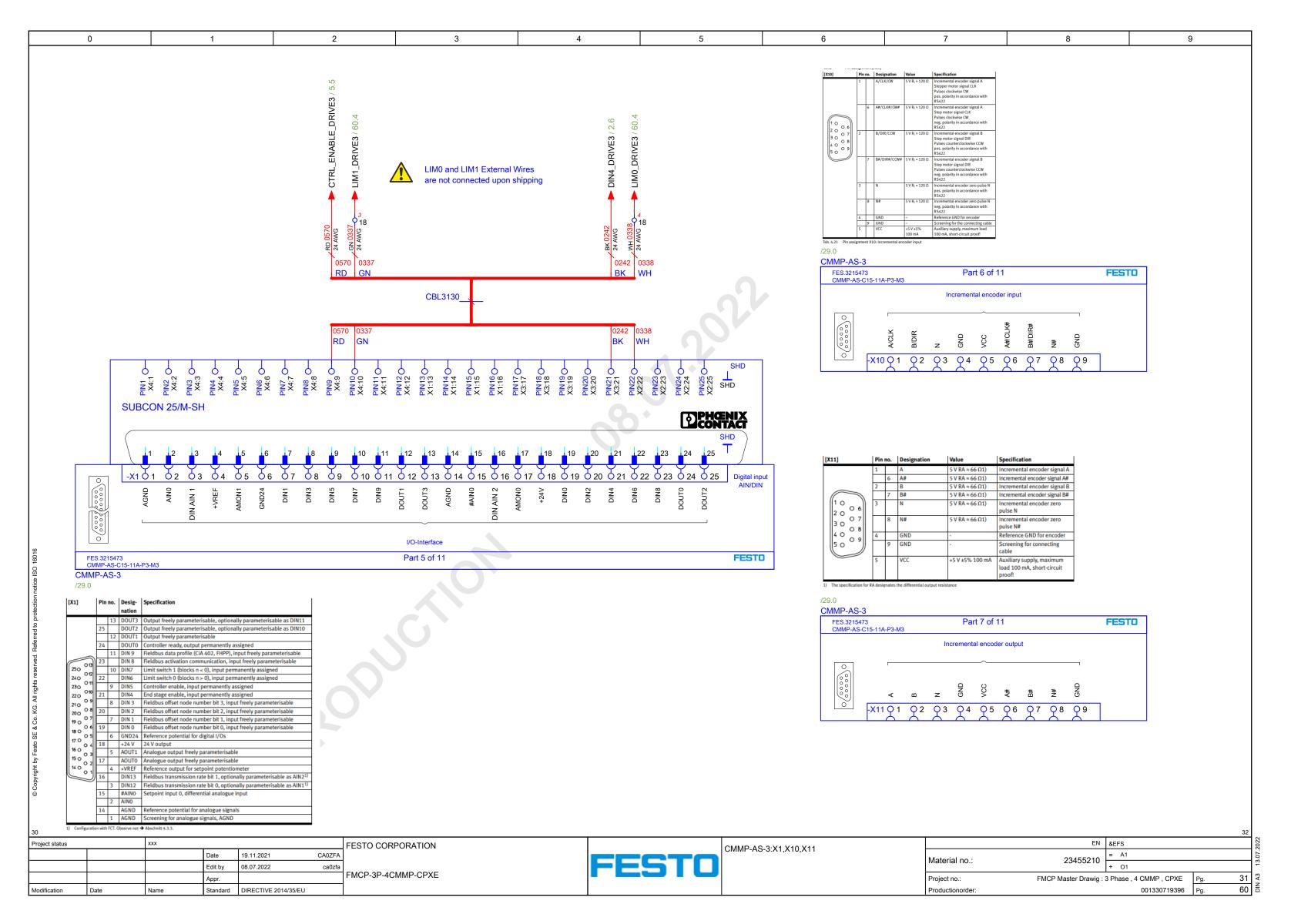
temperature, N/C contact, PTC,

temperature sensor

differential

differential

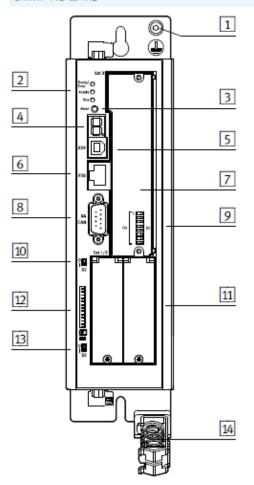
x											
x											31
			l F	ESTO CORPORATION		CMMP-AS-3:X6,X2B,X2A		EN &I	EFS		
ı	Date 19	9.11.2021 CA				CIVIIVIP-AS-3.X0,X2D,X2A	Material no .	22455240 =	A1		
I	Edit by 08	08.07.2022 c					Material no.:	23433210 +	01		
,	Appr.		F	FMCP-3P-4CMMP-CPXE			Project no.:	FMCP Master Drawig : 3 P	Phase , 4 CMMP , CPXE	Pg.	30
ame S	Standard D	DIRECTIVE 2014/35/EU					Productionorder:		001330719396	Pg.	60
ame	1	Edit by C	Edit by 08.07.2022	Edit by 08.07.2022 ca0zfa Appr. F	Edit by 08.07.2022 ca0zfa	Date   19.11.2021	Date   19.11.2021	Date   19.11.2021	Date   19.11.2021	Date   19.11.2021	Date   19.11.2021



10 3 4 5 6 9

#### View of motor controller

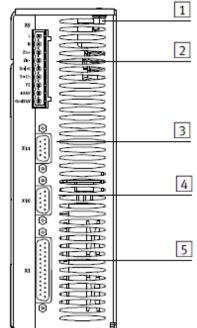
CMMP-AS-...-M3



- PE connection
- 2 LEDs
- 3 Reset button
- 4 7-segment display
- 5 X19 USB interface
- 6 X18 Ethernet interface
- Slot for switch or safety module
- 8 X4 CANopen interface
- Fieldbus settings
- Activation of CANopen terminating resistor
- Slots for extension modules
- SD/MMC card slot
- Activation of firmware download
- Screened connection

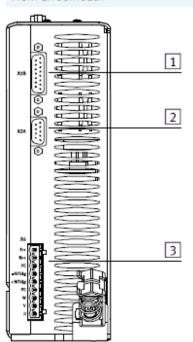


#### From above



- PE connection
- 2 X9 power supply
- 3 X11 incremental encoder interface (output)
- 4 X10 incremental encoder

#### From underneath



- 1 X2B encoder connection
- 2 X2A resolver connection
- 3 X6 motor connection

### Device properties

Devicename: Drive4 CMMP-AS-M3 Devicetype: 93335 Serialnumber: ProductKey: unknown 1501325 Partnumber: NOC: unknown Firmware: 4.0.1501.2.4

DHCP:

IP Address: 192.168.4.24 IP Netmask: 255.255.255.0 192.168.0.82 Gateway: 192.168.0.82 DNS: MAC: 00:0E:F0:0C:6C:97

00:00:00:00:00:00 Generic info:

00:00:00:00:00:00

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31					
Project status		xxx			
			Date	19.11.2021	CA0ZF
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			Appr.		
Modification	Date	Name	Standard	DIRECTIVE 2014/35/EU	, and the second

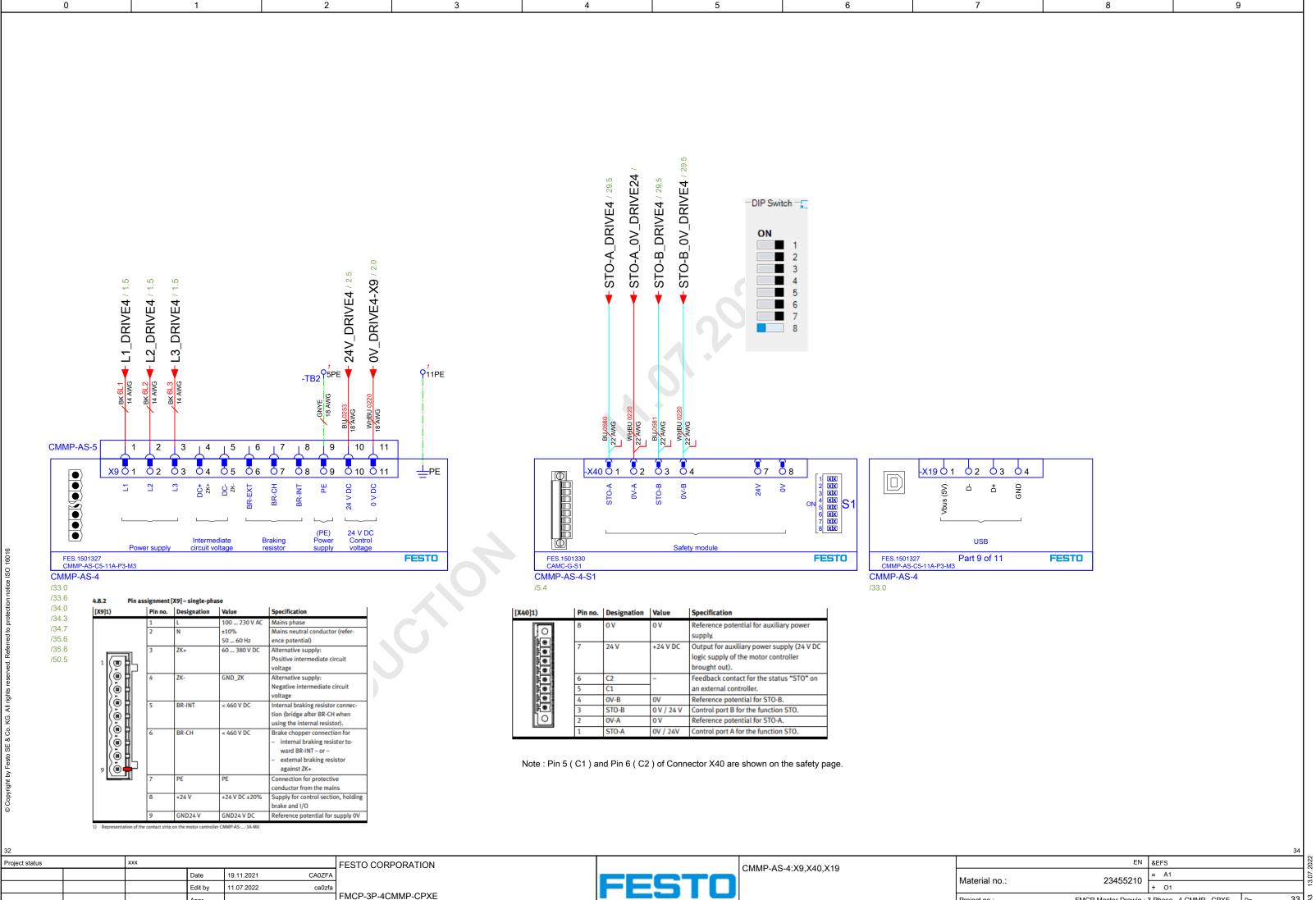
FESTO CORPORATION

FMCP-3P-4CMMP-CPXE

EN &EFS Overview 23455210 Material no.: FMCP Master Drawig: 3 Phase, 4 CMMP, CPXE Project no.: 001330719396

interface (input)

5 X1 I/O interface



FMCP-3P-4CMMP-CPXE

Name

Modification

Date

Standard DIRECTIVE 2014/35/EU

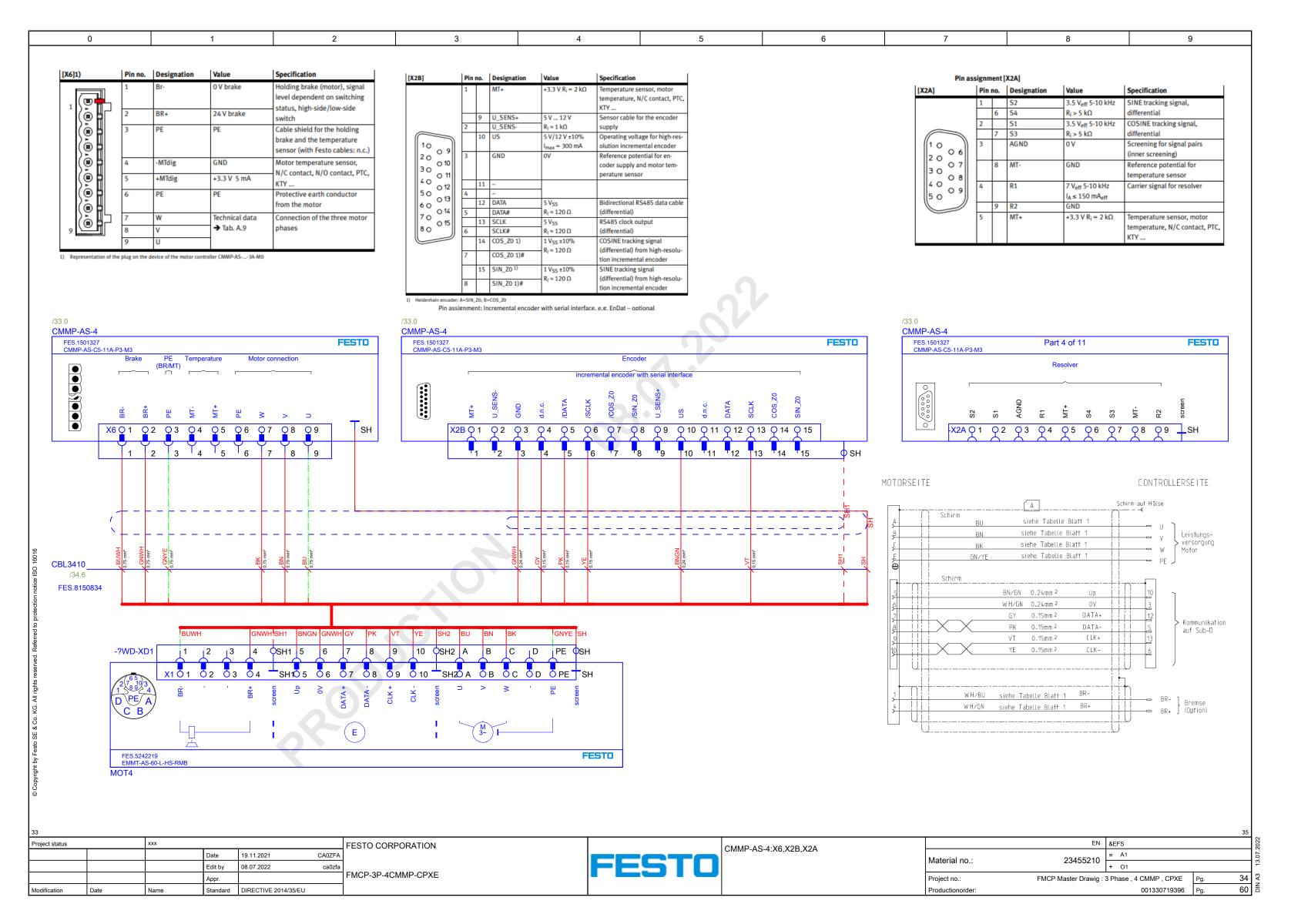
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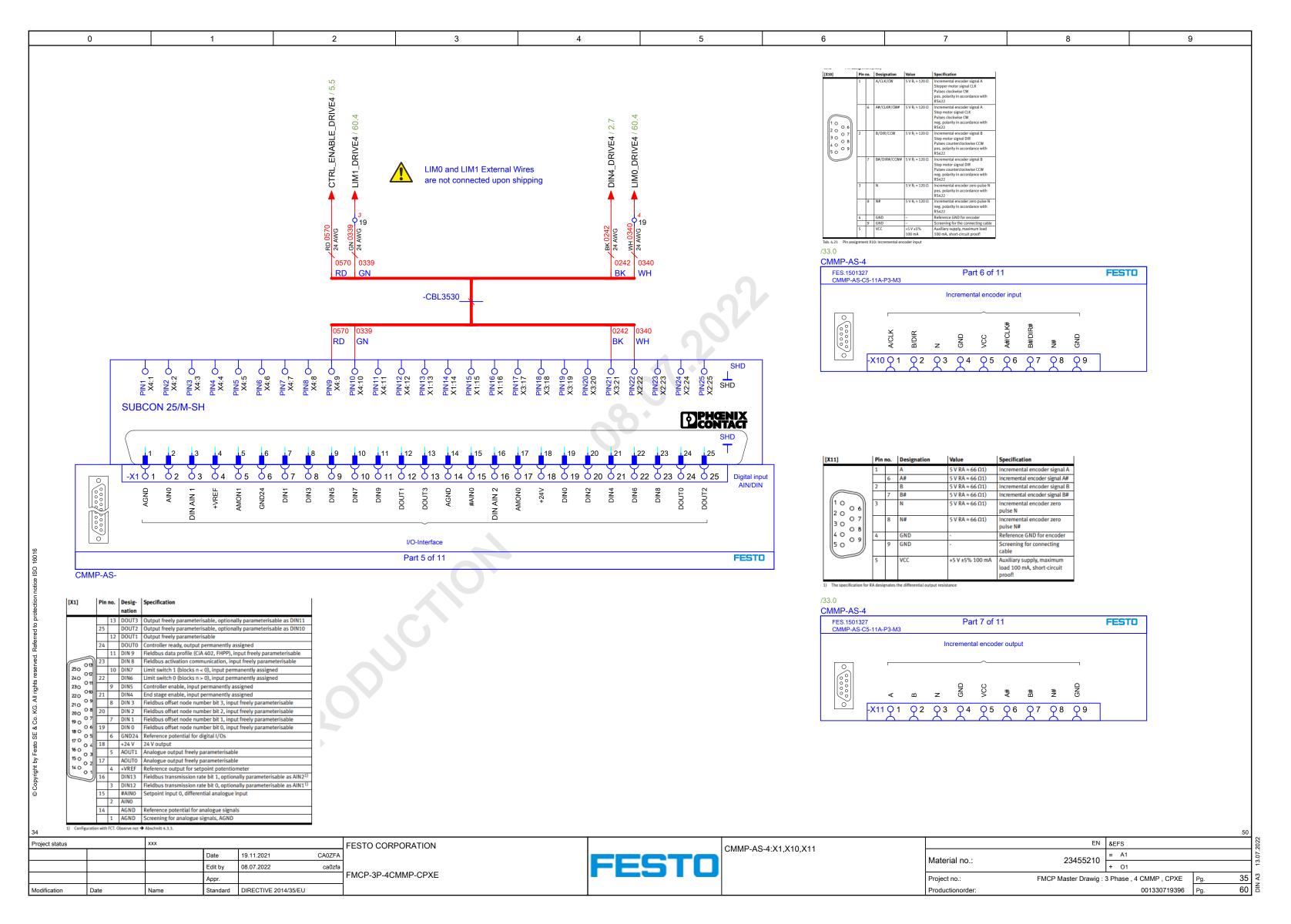
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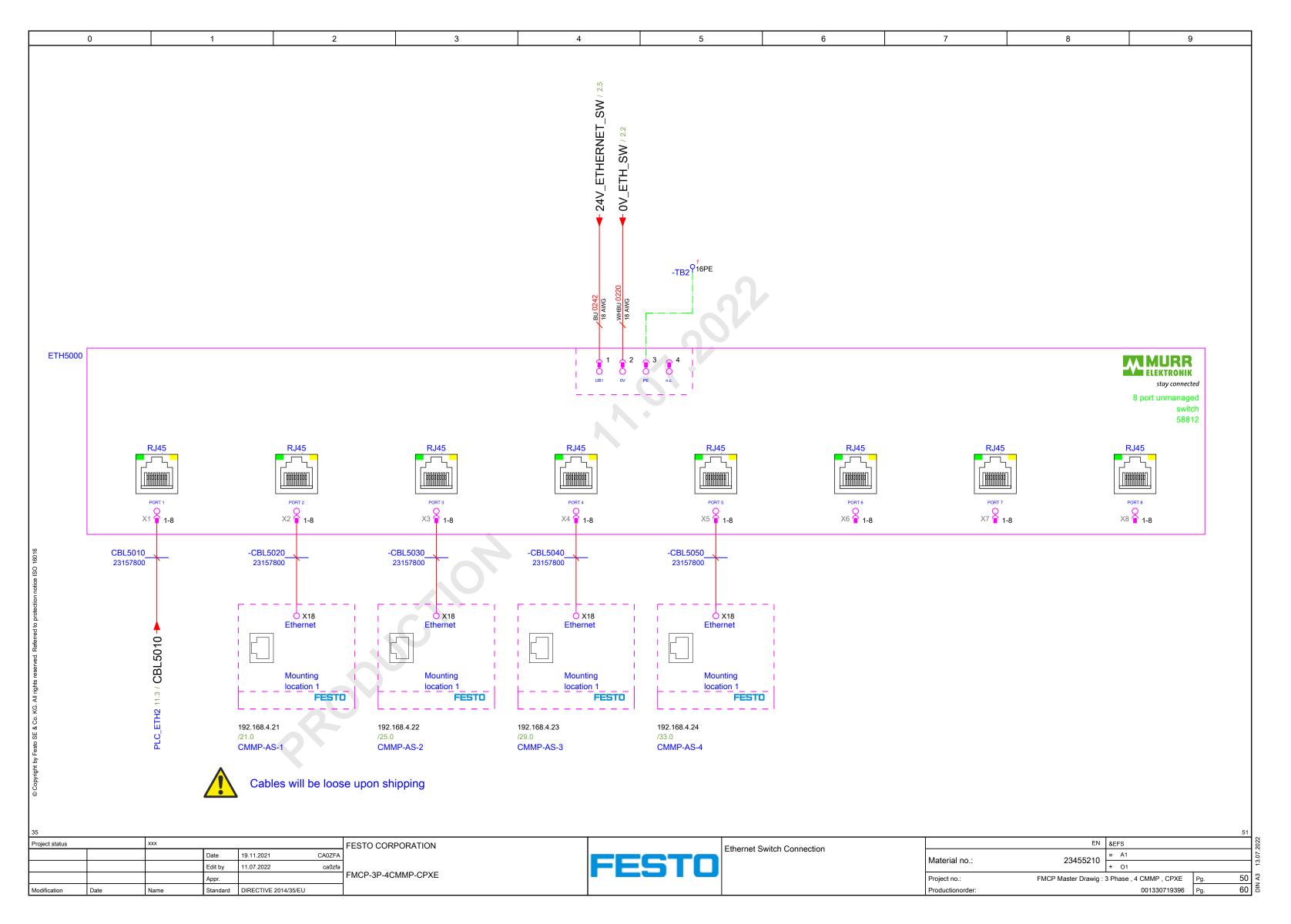
FMCP Master Drawig : 3 Phase , 4 CMMP , CPXE

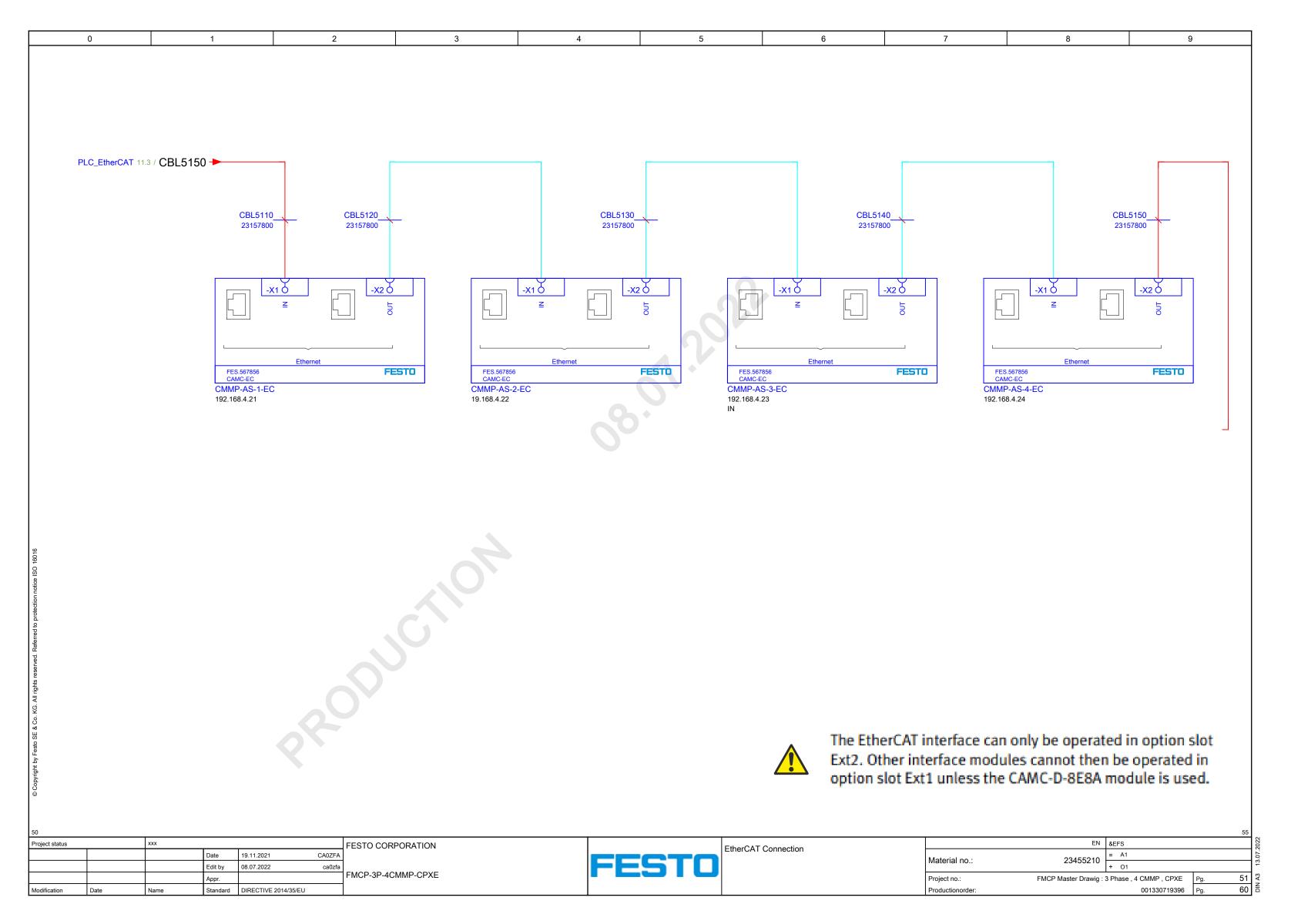
001330719396

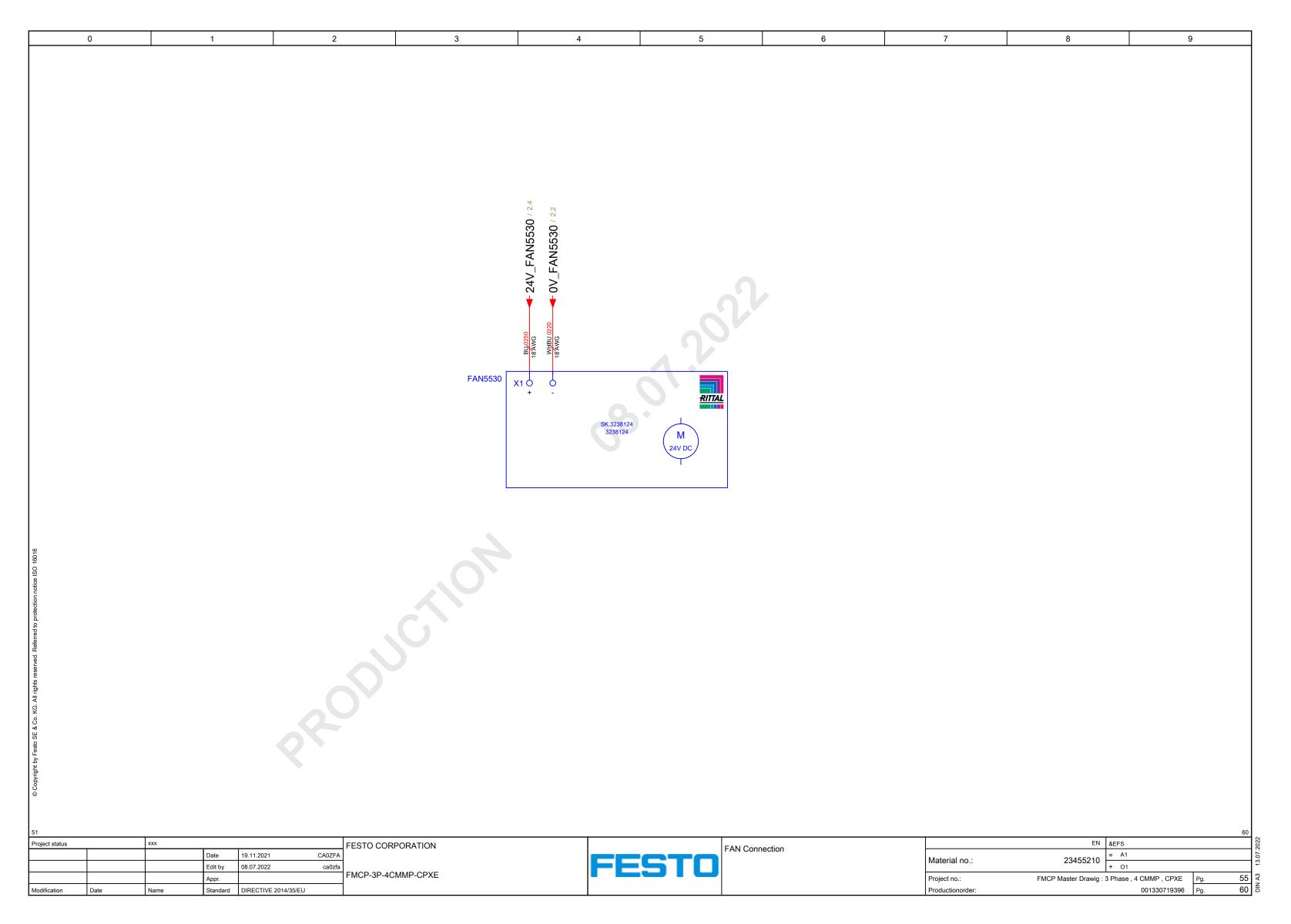
Project no.:











# Terminal diagram

	Conn				Caple Harrie	external			erminal A1+O1			internal	Cable name			Conn	
Type number	nection design / -number  Manufacturer	14 AWG			Caple type	:	Connection	Level Connection external	Comection Internal	Jumper	Connection	Target designation	Cable type			ection design / -number	Page / column
WPE 6	WEI								1								&EFS/1.2
WPE 6	WEI	YEG	N		-TI	32	1PE:7		2	1							&EFS/1.2
WPE 6	WEI						PE		3	1							&EFS/1.7

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0 2 6 9 3 5 Terminal diagram -CBL0510 external internal Terminal strip =A1+O1-TB2 Terminal Manufacturer Type number Target designation Page / column Target designation 1PE YEGN -TB1 7 | 1 | &EFS/1.2 AMC 2.5 WEI 0220 WHBU -CMMP-AS-5 11 6 2 -CMMP-AS-1 WHBU 0220 &EFS/2.0 3 -SR0510 0581 &EFS/5.8 4 4 **4**8 BU &EFS/5.7 -SR0510 0580 2PE AMC 2.5 WEI GNYE -CMMP-AS-1 1 1 &EFS/21.2 2 -CMMP-AS-2 WHBU 0220 &EFS/2.0 2 3 -X40:3 -CMMP-AS-1-S1 BU &EFS/5.8 0581 2 4 -X40:1 -CMMP-AS-1-S1 BU 0580 &EFS/5.7 3PE -CMMP-AS-2 AMC 2.5 WEI GNYE <sup>7</sup> | 1 | &EFS/25.2 3 6 2 -CMMP-AS-3 WHBU &EFS/2.0 0220 3 5 3 &EFS/5.8 4 4 3 &EFS/5.7 4PE 7 1 AMC 2.5 WEI GNYE -CMMP-AS-3 &EFS/29.2 &EFS/2.0 2 4 -PSU0210 4 5 3 &EFS/5.8 4 4 &EFS/5.7 5PE AMC 2.5 WEI GNYE -CMMP-AS-5 9 7 1 &EFS/33.2 2 -CMMP-AS-1-S1 WHBU &EFS/2.1 -X40:2 0220 5 0242 -FU0220 OUT:3 3 3 -SR0510 BU 0242 &EFS/2.5 A1 5 0552 BU -SR0510 S12 4 4 21 -PB1 GN 0552 &EFS/5. 6PE AMC 2.5 WEI 1 2 &EFS/2.1 5 3 6 -SR0510 &EFS/2.5 0242 -ETH5000 13 0242 6 S22 4 4 BU -SR0510 22 -PB1 0562 &EFS/5.1 WEI <sup>7</sup> | 1 | 7PE AMC 2.5 6 2 &EFS/2. 3 61 -SR0510 BU &EFS/2.6 0242 4 4 0547 BU -CMMP-AS-1-S1-CMMP-AS-1 -X40:5 X2 -SR0510 BU 0547 &EFS/5.6 WEI X9:PE 1 8PE &EFS/21.3 AMC 2.5 -CMMP-AS-1 2 8 -X40:4 -CMMP-AS-1-S1 WHBU 0220 &EFS/2.1 8 5 3 -SR0510 BU 0242 &EFS/2.6 8 4 BU 62 -SR0510 &EFS/5.9 0590 -CMMP-AS-2 9PE 1 &EFS/25.3 WEI X9:PE AMC 2.5 2 &EFS/2.1 9 5 3 -SR0510 BU 0242 &EFS/2.6 4 4 9 &EFS/5.9 EN &EMA Project status xxx FESTO CORPORATION Terminal diagram CA0ZFA 19.11.2021 23455210 Material no.: Edit by 13.07.2022 FMCP-3P-4CMMP-CPXE Project no.: FMCP Master Drawig: 3 Phase, 4 CMMP, CPXE DIRECTIVE 2014/35/EU Name 001330719396 Modification Date Standard

0 2 6 9 3 5 Terminal diagram external internal Terminal strip =A1+O1-TB2 Terminal Manufacturer Type number Page / column Target designation Target designation 1 10PE AMC 2.5 WEI -CMMP-AS-3 X9:PE &EFS/29.3 2 &EFS/2.2 10 3 X3:21 -CON2300 0242 &EFS/2.6 10 BU -PB2 4 4 S11 BU &EFS/5. 0550 -SR0510 0550 1 11PE AMC 2.5 WEI -CMMP-AS-4 X9:PE &EFS/33.3 WHBU -PLC1102 XD:2 2 11 -SR0510 WHBU 0220 &EFS/2.2 3 11 17:4 -TB2 BK &EFS/2.6 0242 11 -PB2 42 4 4 41 -PB1 BK 0551 &EFS/5.1 12 0220 WHBU -LT0210 x1 6 2 0V -FU0220 WHBU 0220 &EFS/2.2 12 3 3 X3:21 BK &EFS/2.6 -CON3100 0242 4 4 12 BU BU -PB2 21 -SR0510 0560 &EFS/5.1 0560 S21 1 13PE AMC 2.5 WEI 13 2 -FAN5530 0220 &EFS/2.2 13 &EFS/2.7 3 X3:21 -CON3500 BK 0242 13 -PB2 22 4 4 42 -PB1 RD &EFS/5. 0561 1 14PE AMC 2.5 WEI GNYE -PSU0210 PE &EFS/2.1 2 14 2 -ETH5000 0220 &EFS/2.2 14 3 &EFS/2.7 14 0541 BU -SR0510 X1 4 4 -S1 &EFS/5.3 12 7 1 15PE AMC 2.5 WEI GNYE -PSU0210 &EFS/2.0 2 15 -TB3 WHBU &EFS/2.3 1:1 0220 15 3 &EFS/2.7 -S1 11 4 4 15 &EFS/5.3 -X40:6 -CMMP-AS-4-S1-CMMP-AS-4 0542 7 1 16PE WEI AMC 2.5 -ETH5000 &EFS/50.5 16 &EFS/5.5 2 -CON2300 0570 X4:9 16 5 3 X4:10 -CON2300 GN 333 &EFS/23.2 16 4 4 X2:22 -CON2300 0334 &EFS/23.4 1 17PE AMC 2.5 WEI 17 RD &EFS/5.5 2 X4:9 -CON2700 0570 3 17 X4:10 -CON2700 GN 0335 &EFS/27.2 17 0242 BK -TB2 11:2 4 4 X3:21 -CON2700 BK 0242 &EFS/27.4 7 1 18PE PΕ AMC 2.5 WEI &EFS/2.0 2 18 RD &EFS/5.5 X4:9 -CON3100 0570 5 3 18 X4:10 -CON3100 GN 0337 &EFS/31.2 18 4 4 X2:22 -CON3100 WH 0338 &EFS/31.4 7 1 19PE WEI &EFS/2.0 AMC 2.5 PE xxx EN &EMA Project status FESTO CORPORATION Terminal diagram ca0zfa CA0ZFA 12.07.2022 19.11.2021 23455210 Material no. 13.07.2022 Edit by FMCP-3P-4CMMP-CPXE FMCP Master Drawig: 3 Phase, 4 CMMP, CPXE Project no.: DIRECTIVE 2014/35/EU

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# Terminal diagram

		Conn				Cable name	external			ermir A1+0					internal	Cable name	-CBL3530			Conn	
Type number	Manufacturer	nection design / -number				Cable type	Target designation	Connection	Level Connection external	Terminal	Connection Internal	Jumper		Connection	Target designation	Cable type			20 AWG	nection design / -number	Page / column
									6 2			•	Х	<b>&lt;</b> 4:9	-CON	13500	RD			0570	&EFS/5.5
									5 3			1	X	<b>&lt;</b> 4:10		13500	GN			0339	&EFS/35.2
									4 4				ı x	K2:22	-CON	13500	WH			0340	&EFS/35.4
AMC 2.5	WEI								7 1	20PE											
									6 2			•									&EFS/5.6
									5 3	20	2	١	1								
									4 4		3		1								
AMC 2.5	WEI								7 1	21PE											
					1				6 2			•									&EFS/5.6
									5 3			١									
									4 4				ı								
AMC 2.5	WEI								7 1	22PE											
									6 2			•	1	14	-SF	R0510			BU	0570	&EFS/5.6
									5 3			1									
									4 4	22	3		1								

xxx FESTO CORPORATION 12.07.2022 ca0zfa CA0ZFA 19.11.2021 Edit by 13.07.2022 FMCP-3P-4CMMP-CPXE Standard DIRECTIVE 2014/35/EU



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	Material no.:	23455210	= A1
			+ 01
	Project no :	FMCP Master Drawig : 3 Phase 4 CMMP (	

Terminal diagr

0 2 3 6 9 5 Terminal diagram external internal Terminal strip =A1+O1-TB3 Terminal Type number Manufacturer Target designation Page / column Target designation 1PE 7 | 1 | AMC 2.5 WEI 6 2 15:1 -TB2 WHBU 0220 &EFS/11.1.0 3 1 X0:0 -DO1103 1410 &EFS/14.1.1 1 4 4 X0:0 BU &EFS/12. -DI1104 0590 2PE AMC 2.5 WEI 1 2 2 &EFS/11.1.0 2 3 X0:1 -DO1103 BU &EFS/14.1.2 1420 2 BU 4 4 X1:0 -DI1104 1220 &EFS/12.2 3PE AMC 2.5 WEI 7 | 1 | 3 6 2 &EFS/11.1.1 3 5 3 BU &EFS/14.1.3 X1:0 -DO1103 1430 3 4 4 **X2** -DI1104 1230 &EFS/12.3 4PE 7 **| 1** | AMC 2.5 WEI 6 2 4 &EFS/11.1.1 4 5 3 X1:1 -DO1103 BU &EFS/14.1.4 1440 0280 BU -FU0220 14 4 4 4 X3:0 -DI1104 BU 1240 &EFS/12.4 5PE AMC 2.5 WEI 7 | 1 | 2 &EFS/11.1.1 5 &EFS/14.1.5 3 X2:0 -DO1103 BU 1450 5 4 4 X2:0 -DI1104 BU 1250 &EFS/12.5 6PE AMC 2.5 WEI 1 2 &EFS/11.1.1 5 3 6 X2:1 &EFS/14.1.6 -DO1103 1460 6 4 4 X2:0 -DI1104 BU 1260 &EFS/12.6 7PE WEI <sup>7</sup> | 1 | AMC 2.5 6 2 &EFS/11.1.2 3 3 X3:0 -DO1103 1470 &EFS/14.1.7 7 4 4 ■ X3:0 1270 -DI1104 BU &EFS/12.8 WEI 1 8PE AMC 2.5 2 8 &EFS/11.1.2 8 5 3 X3:1 -DO1103 BU 1480 &EFS/14.1.8 8 4 ■ X3:0 BU -DI1104 1280 &EFS/12.9 1 9PE WEI AMC 2.5 6 2 &EFS/11.1.2 9 5 3 OUT:2 -FU0220 BU 0241 &EFS/11.1.6 4 4 9 X4:1 -DI1104 BU &EFS/13.1 1310 xxx EN &EMA Project status FESTO CORPORATION Terminal diagram 13.07.2022 ca0zfa CA0ZFA 19.11.2021 23455210 Material no .: 12.07.2022 Edit by 13.07.2022 ca0zfa FMCP-3P-4CMMP-CPXE FMCP Master Drawig: 3 Phase, 4 CMMP, CPXE Project no.: Date Name Standard DIRECTIVE 2014/35/EU 001330719396

0 2 3 5 6 9 Terminal diagram external internal Terminal strip =A1+O1-TB3 Terminal Type number Manufacturer Page / column Target designation Target designation 6 2 &EFS/11.1.3 7 1 10PE AMC 2.5 WEI 10 6 2 &EFS/11.1.3 10 5 3 -XD:0 -DO1103 BU &EFS/11.1.6 0241 10 4 4 X4:1 -DI1104 BU 1320 &EFS/13.2 7 1 11PE WEI AMC 2.5 6 2 11 &EFS/11.1.3 11 3 &EFS/11.1.6 11 4 4 ■ X5:1 -DI1104 1330 &EFS/13.3 1 12PE AMC 2.5 WEI 2 12 &EFS/11.1.3 12 5 3 &EFS/11.1.6 12 4 4 X5:1 -DI1104 BU &EFS/13.4 1 13PE WEI AMC 2.5 6 2 13 &EFS/11.1.4 13 3 &EFS/11.1.7 13 4 4 ■ X6:1 -DI1104 BU 1350 &EFS/13.5 1 14PE AMC 2.5 WEI 14 &EFS/11.1.4 6 2 14 5 3 &EFS/11.1.7 4 4 14 X6:1 -DI1104 BU 1360 &EFS/13.6 1 15PE WEI AMC 2.5 6 2 15 &EFS/11.1.4 15 5 3 &EFS/11.1.7 4 4 15 -DI1104 &EFS/13.8 ■ X7:1 1370 1 16PE AMC 2.5 WEI 16 2 &EFS/11.1.5 16 5 3 &EFS/11.1.8 4 4 16 ■ X6:1 BU &EFS/13.9 -DI1104 1380 EN &EMA Project status xxx FESTO CORPORATION Terminal diagram CA0ZFA 19.11.2021 **FESTO** 23455210 Material no .: 13.07.2022 Edit by FMCP-3P-4CMMP-CPXE FMCP Master Drawig: 3 Phase, 4 CMMP, CPXE 3.1 Project no.:

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