



Elektrotechnik

Kunde: BMG FOS
Customer:

Telefon:
Telephone:

Telefax:
Telefax:

Kunde genehmigt:
Customer approved:

Datum: _____ Unterschrift: _____
Date: _____ Signature: _____

Projekt: E.3598 Fos-Sur-Mer
Project

Anlage: gypsum plant
Plant:

Anlagenteil: mill, dryer, storage and rawstone hopper
Plant Part:

Zeichnung: 3598
Drawing:

Hersteller: Knauf Engineering GmbH
Manufacturer: Am Bahnhof 7
DE-97346 Iphofen

Baujahr: 202...
Year of Construction:

Telefon: +49 (9323) 31-0
Telephone:

Telefax: +49 (9323) 31-444
Telefax:

HINWEISE:

Schutzeinrichtungen sind vor Inbetriebnahme zu überprüfen.
Motorschutzschalter und thermische Auslöser sind auf den Nennstrom des jeweiligen Verbrauchers einzustellen.
Die Drehrichtung der Antriebe sind in Verbindung mit den Maschinenlieferanten zu prüfen.
Die Schutzmaßnahme ist nach VDE 0100 bzw. nach Vorschriften des örtlichen EVU oder nach werksinternen Vorschriften vorzunehmen.
Sämtliche Klemmstellen sind auf festen Sitz zu überprüfen, gegebenenfalls nachzuziehen.
Alle mit # bezeichneten Leitungen sind kurzschlußfest verlegt.

note:

Check all protection devices before operating.
Adjust motor starter and thermal trip to nominal current of the corresponding consumer.
Verify the sense of rotation of the drives in connection with the machine suppliers.
The protective measures for safety have to be realized according to VDE 0100 or to the standard of the local power supply company or to works specification.
Make sure that all clamps are tight, if necessary re-tighten them.
All electric lines marked with # are resistant to short circuits.

Verdrahtungsfarben:

Hauptstrom:	Schwarz	Primary Current:	Black
Steuerspannung AC 230 V:	Rot	Control Voltage AC 230 V:	Red
Steuerspannung AC 0-60 V:	Braun	Control Voltage AC 0-60 V:	Brown
Steuerspannung DC 0-60 V:	Dunkelblau	Control Voltage DC 0-60 V:	Darkblue
Steuerspannung DCM 0-60 V:	Dunkelblau/Weiss	Control Voltage DCM 0-60 V:	Darkblue/White
Messleitungen:	Weiss	Measuring Circuit:	White
Fremdspannung:	Orange	Interference Voltage:	Orange
Neutralleiter:	Hellblau	Neutral Conductor:	Lightblue
Schutzleiter:	Grün/Gelb	Protective Conductor:	Green/Yellow

Wiring Colors:

Anschlusswerte:

Anschlussleistung:	AC 400 kW	Connected Load:	AC 400 kW
Max. Vorsicherung:	AC 230 A/Netz	Max. Back-Up Fuse:	AC 230 A/Netz
Max. Vorsicherung:	DC 24 A/AEV	Max- Back-Up Fuse:	DC 24 A/AEV
Netzspannung:	V	Line Voltage:	V
Steuerspannung:	V / DC 24 V	Control Voltage:	V / DC 24 V
Signalspannung:	V	Signal Voltage:	V

Connected Load:

cover sheet

date	2023-01-12	BMG FOS	=
drn by	iA Pohli M	Route du Quai Minéralier	+
check		13270 Fos-Sur-Mer	page: 1
		France	next page: 2

Anlagenkennzeichen "=="

besteht aus: = ABC

A: Ebene

D: Leistungsteil
F: Pult
G: Unterverteiler
P: Steuerteil
B: Brenner

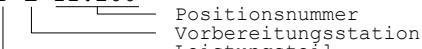
B: Bereich

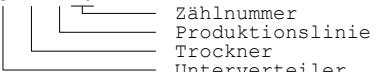
A: Brecher
B: Gipswerk (alle Bereiche)
C: Alphagipswerk
D: Perliteblählanlage
E: Versorgung allg. (Luft, Öl, Dampf,...)
F: Gipsrecyclinganlage
G: Mischerei Trocken
H: Mischerei Pastöse
I:
J: Nealitanlage
K: Kartonwerk
L: Vorbereitungsstation
M: Schere / Nassquergang
N: Trockner
O:
P: Abnahme
Q:
R: Sandaufbereitung
S: Aufteilsäge / Weiterver. offline
T: Weiterverarbeitung online
U: Kalksteinaufbereitung
V: Kreideanlage / Kalkerzeugung
W: Profilieranlage
X: Anhydrit Aufbereitung
Y: Granulieranlage
Z: Zwischenwandplattenanlage

C: Positions- oder Zählernummer

Ebene D: Positionsnummer
Ebene F: Pult-Nr. Zählnummer
Ebene G: UV-Nr. Zählnummer
Ebene P: Zählnummer

Beispiel:

= D L 11.200


= G N 110


Ortskennzeichen "+"

besteht aus: + ABC

A: Ebene

D: Leistungsteil
F: Pult
G: Unterverteiler
P: Steuerteil
B: Brenner

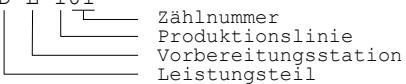
B: Bereich

A: Brecher
B: Gipswerk (alle Bereiche)
C: Alphagipswerk
D: Perliteblählanlage
E: Versorgung allg. (Luft, Öl, Dampf,...)
F: Gipsrecyclinganlage
G: Mischerei Trocken
H: Mischerei Pastöse
I:
J: Nealitanlage
K: Kartonwerk
L: Vorbereitungsstation
M: Schere / Nassquergang
N: Trockner
O:
P: Abnahme
Q:
R: Sandaufbereitung
S: Aufteilsäge / Weiterver. offline
T: Weiterverarbeitung online
U: Kalksteinaufbereitung
V: Kreideanlage / Kalkerzeugung
W: Profilieranlage
X: Anhydrit Aufbereitung
Y: Granulieranlage
Z: Zwischenwandplattenanlage

C: Zählernummer

101 . . . n

Beispiel:

+ D L 101

 Produktionslinie
 Vorbereitungsstation
 Leistungsteil

Klemmenleistenaufteilung

-X1 AC 230 V / AC 400 V
 -X2 AC 230 V Steuerspannung
 -X3 DC 24 V
 -X4 Simatic S7
 -X5 DC 24 V Leistung
 -X6 AC 230 V USV
 -X7 Sonstiges

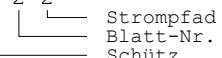
Gerätekennzeichen

besteht aus: AB

A: Kennbuchstabe

Kennbuchstabe	Art des Betriebsmittels
A	Baugruppe, Teilebaugruppen
B	Umsetzer (nicht elektrische Größen auf elektrische Größen und umgekehrt)
C	Kondensatoren
D	Binäre Elemente, Verzögerungseinrichtungen
E	Speichereinrichtungen
F	Heizungen
G	Schutzeinrichtungen
H	Generatoren, Stromversorgungen
I	Meldeeinrichtungen
J	Teile für Aufbauzeichnungen
K	Relais, Schütze
L	Induktivitäten
M	Motoren
N	Verstärker, Regler
O	Messgeräte, Prüfeinrichtungen
P	Starkstrom-Schaltgeräte
Q	Widerstände
R	Schalter, Wähler
S	Transformatoren
T	Modulatoren, Umsetzer
U	Röhren, Halbleiter
V	Übertragungswege, Hohlleiter
W	Klemmen, Stecker, Steckdosen
X	elektrisch betätigte mechanische Einrichtungen
Y	Abschluss, Ausgleichseinrichtungen
Z	Filter, Begrenzer, Gabelabschlüsse

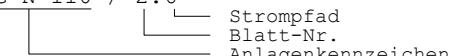
B: Zählnummer**Beispiel:**

- K 2 2

 Strompfad
 Blatt-Nr.
 Schütz

Querverweise:

besteht aus: A/B/C
 A: Anlagenkennzeichen
 B: Blatt-Nr.
 C: Strompfad

Beispiel:

= G N 110 / 2.6

 Strompfad
 Blatt-Nr.
 Anlagenkennzeichen

Plant Identifier "="

consist of: = ABC

A: Level

D: power circuit
F: panel
G: junction boxes
P: control cabinet
B: burner

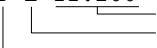
B: Sector

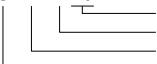
A: sizer
B: gypsum plant (all areas)
C: alpha gypsum plant
D: perlite production
E: supply gen. (air, oil, steam,...)
F: gypsum recycling
G: mixing plant dry comp.
H: mixing plant pasty comp.
I:
J: nealit production
K: carton plant
L: preparing station
M: cutter / cross conveyer
N: dryer
O:
P: stack remove
Q:
R: sand preparation
S: manual saw
T: further processing online
U: limestone preparation
V: chalk production
W: profile line
X: anhydrite production
Y: granulation plant
Z: partition board plant

C: Position- or Numerical-Number

Level D: position number
Level F: panel number, numerical number
Level G: UV-no. numerical number
Level P: numerical number

Example:

= D L 11.200


= G N 110


Location Designation "+"

consist of: + ABC

A: Level

D: power circuit
F: panel
G: junction boxes
P: control cabinet
B: burner

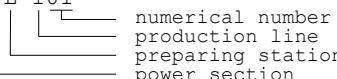
B: Sector

A: sizer
B: gypsum plant (all areas)
C: alpha gypsum plant
D: perlite production
E: supply gen. (air, oil, steam,...)
F: gypsum recycling
G: mixing plant dry comp.
H: mixing plant pasty comp.
I:
J: nealit production
K: carton plant
L: preparing station
M: cutter / cross conveyer
N: dryer
O:
P: stack remove
Q:
R: sand preparation
S: manual saw
T: further processing online
U: limestone preparation
V: chalk production
W: profile line
X: anhydrite production
Y: granulation plant
Z: partition board plant

C: Numerical Number

101 . . . n

Example:

+ D L 101


Terminal Diagram:

- X1 AC 230 V / AC 400 V
- X2 AC 230 V control voltage
- X3 DC 24 V
- X4 Simatic S7
- X5 DC 24 V power
- X6 AC 230 V USV
- X7 other

Item Designation

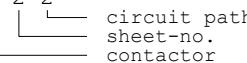
consist of: AB

A: Letter Symbol

Letter Symbol	Designation of Devices
A	subassembly, part assembly
B	converter (non-electrical quantity to electrical quantity and reserved)
C	capacitors
D	binary elements, delay equipments
E	memory equipments
F	heating
G	protection equipment
H	generator, power supply
I	signal devices
J	parts for overview
K	relay, contactor
L	inductive elements
M	motor
N	amplifier, controller
O	measuring devices, testing equipments
P	heavy current-switching devices
Q	resistors
R	switches, selectors
S	transformers
T	modulators, converter
U	electronic valves, semiconductors
V	transmission paths, hollow conductors
W	clamps, plugs, socket-outlets
X	electric operated mechanical equipments
Y	termination, compensator equipments
Z	filter, limitter, end loop termination

B: Numerical Number

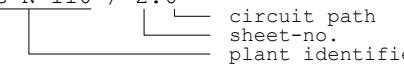
Example:

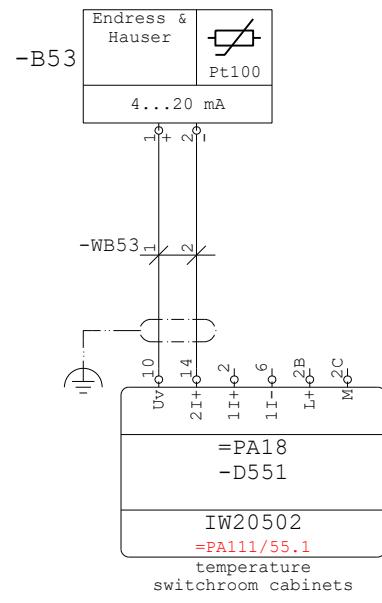
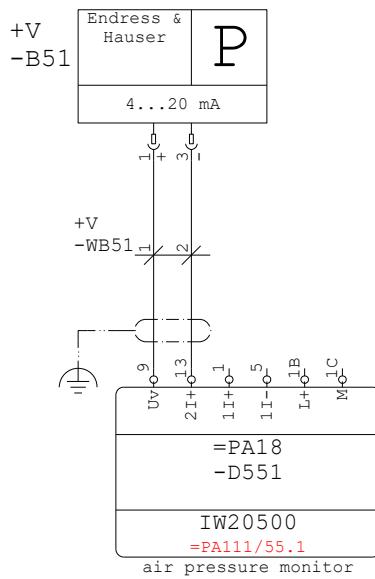
- K 2 2


Cross References:

consist of: A/B/C
A: plant identifier
B: sheet-no.
C: circuit path

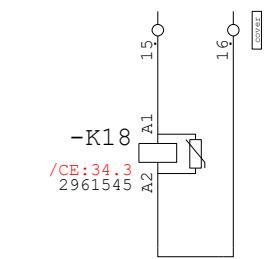
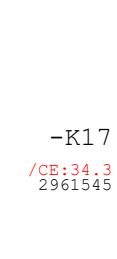
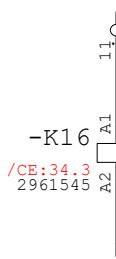
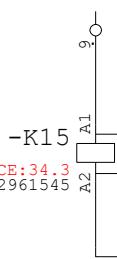
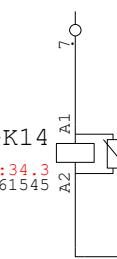
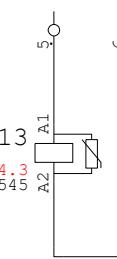
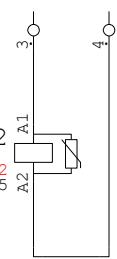
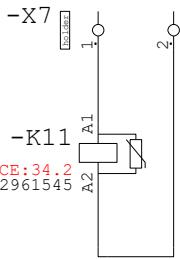
Example:

= G N 110 / 2.6


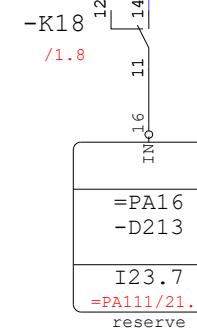
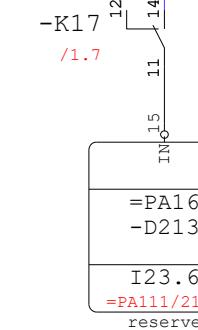
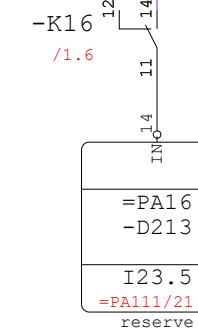
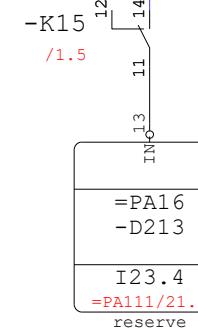
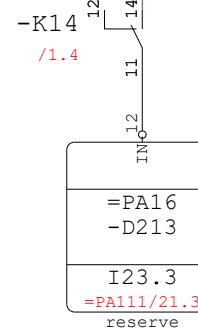
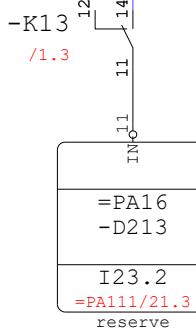
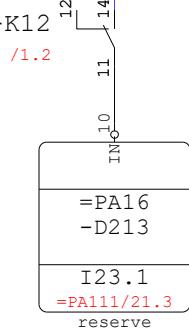
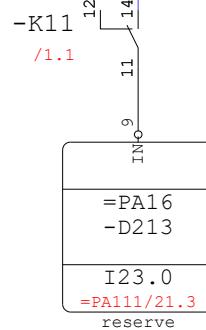


date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	messages general	=PA07
drn by	iA Pohli M				+PA111
check					page: 5
chg.			E.3598		next page: =PA08+PA111/1

SUPPLIER



=PB08/1.8 → 117L+ → 117L+



reserve

reserve

reserve

reserve

reserve

reserve

reserve

reserve

/1.0 14
/1.0 12 11

/1.1 14
/1.1 12 11

/1.2 14
/1.2 12 11

/1.3 14
/1.3 12 11

/1.4 14
/1.4 12 11

/1.5 14
/1.5 12 11

/1.6 14
/1.6 12 11

/1.7 14
/1.7 12 11

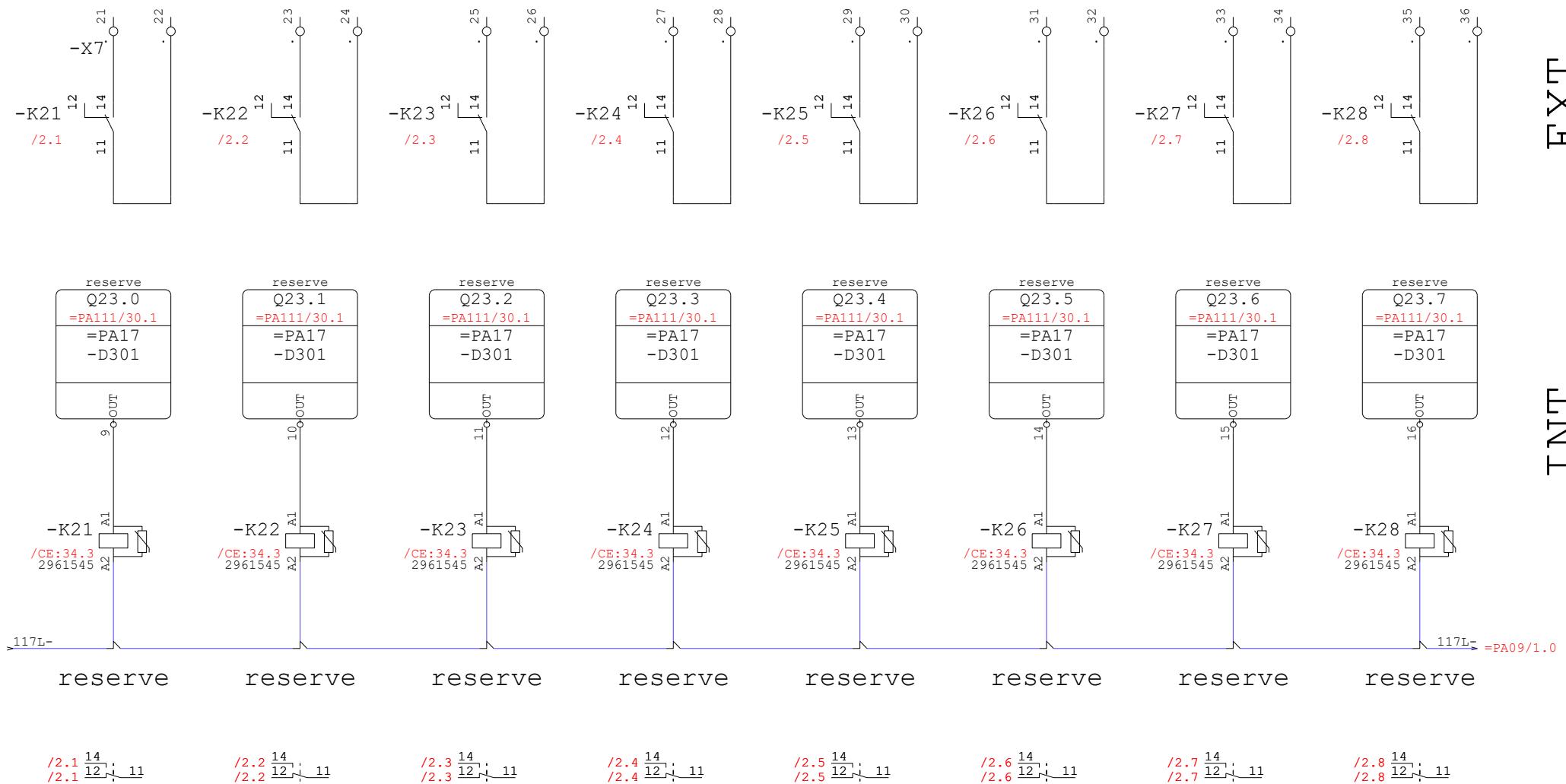
date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	 E.3598	cross signals	=PA08
drn by	iA Pohli M			+PA111	
check				page: 1	
chg.				next page: 2	

EXT

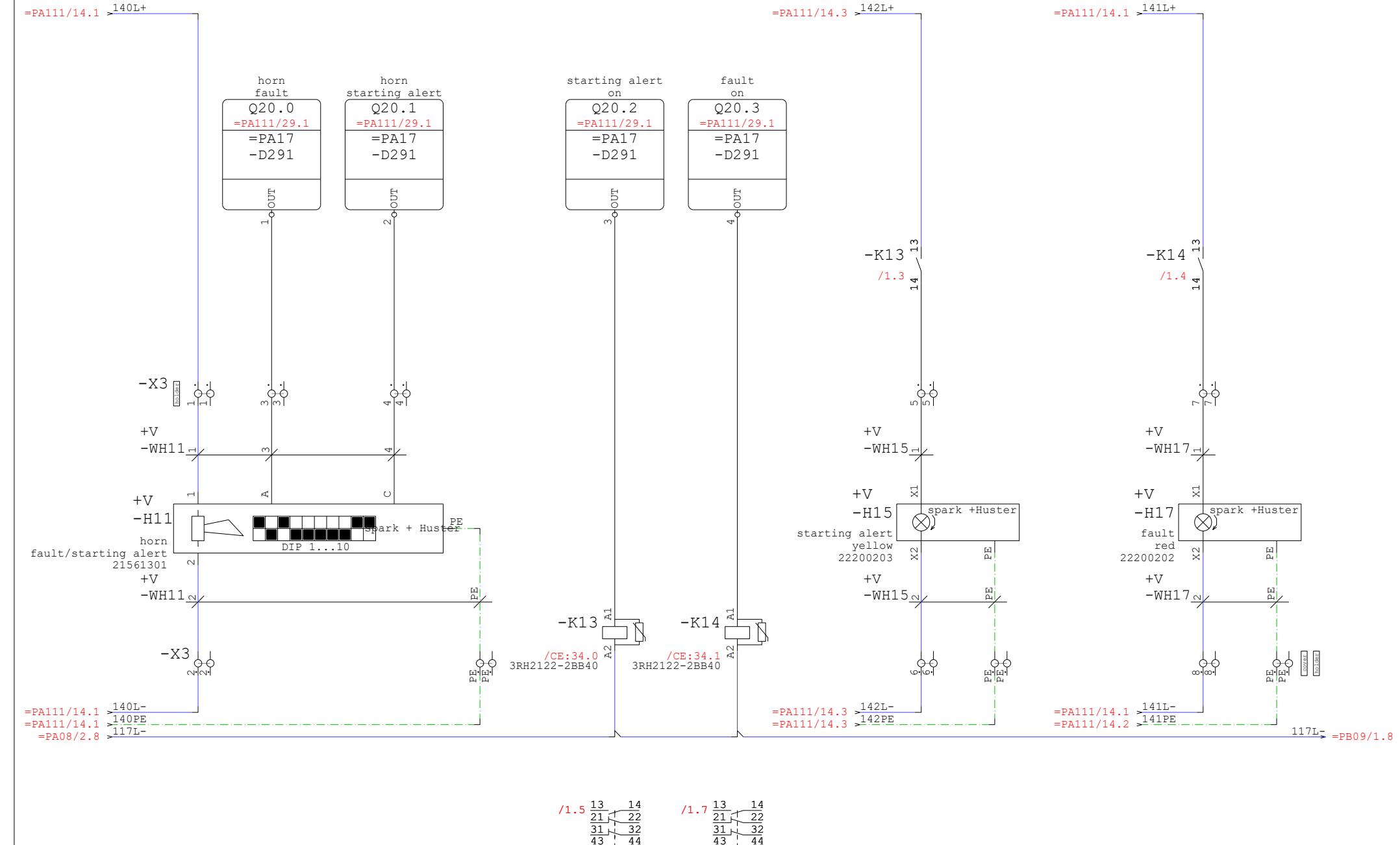
INT

0 1 2 3 4 5 6 7 8

SUPPLIER



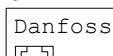
date	2023-10-27	BMG FOS	 E.3598	cross signals	=PA08
drn by	iA Pohli M	Route du Quai Minéralier		+PA111	
check		13270 Fos-Sur-Mer		page: 2	
chg.		France		next page: =PA09+PA111/1	



date	2023-10-27	BMG FOS	knauf ENGINEERING E.3598	message faults / horn	=PA09
drn by	iA Pohli M	Route du Quai Minéralier		+PA111	
check		13270 Fos-Sur-Mer		page: 1	
chg.		France		next page: =PA12+DA112/2	

=DA11.410

-U11



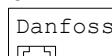
P45K PN
IP20
131N7556
=DA11.410/1.1

P1

P2

=DA11.705

-U11



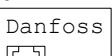
P30K PN
IP20
131N7556
=DA11.705/1.1

P1

P2

=DA11.725

-U11



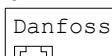
P4KO PN BM
IP20
134F7574
=DA11.725/1.1

P1

P2

=DA11.745

-U11



P4KO PN BM
IP20
131N6450
=DA11.745/1.1

P1

P2

=PB13/2.3 Switch OUT

PN VLT /3.0

date 2023-10-27

BMG FOS

Route du Quai Minéralier

13270 Fos-Sur-Mer

France

drn by iA Pohli M

check

chg.

knauf ENGINEERING

E.3598

PLC - profinet - overview VLT

profinet-overview +DB102

=PA12

+DA112

page: 2

next page: 3

=DA11.450

-U11



/2.8 PN_VLT

Switch IN =PA13/2.3

date	2023-10-27	BMG FOS		PLC - profinet - overview VLT profinet-overview +DB103	=PA12
drn by	iA Pohli M	Route du Quai Minéralier			+DA113
check		13270 Fos-Sur-Mer			page: 3
chg.		France			next page: =PA13+PA111/2

=PA111/14.7

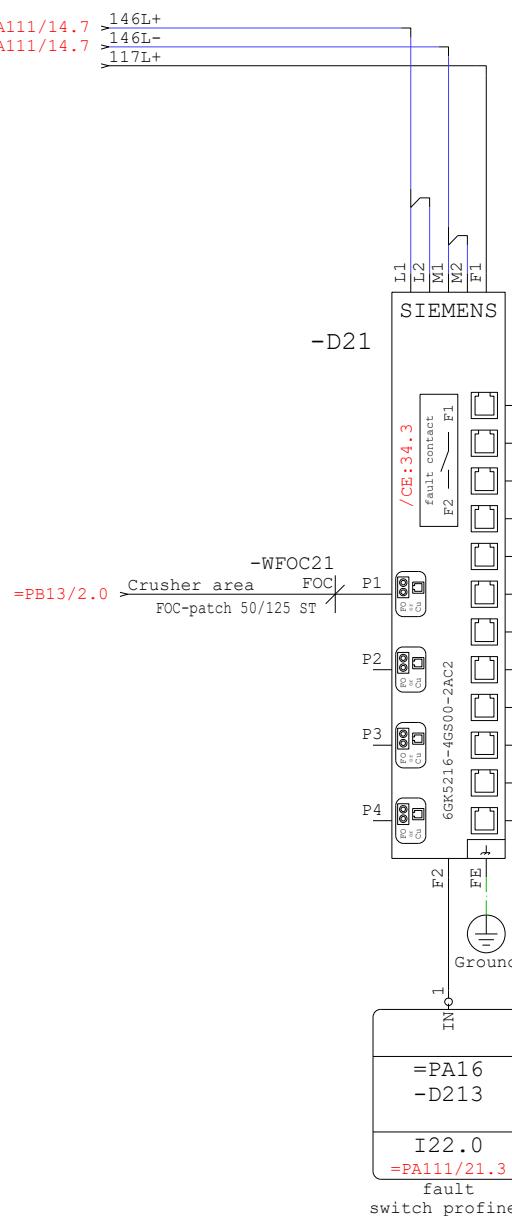
146L+

=PA111/14.7

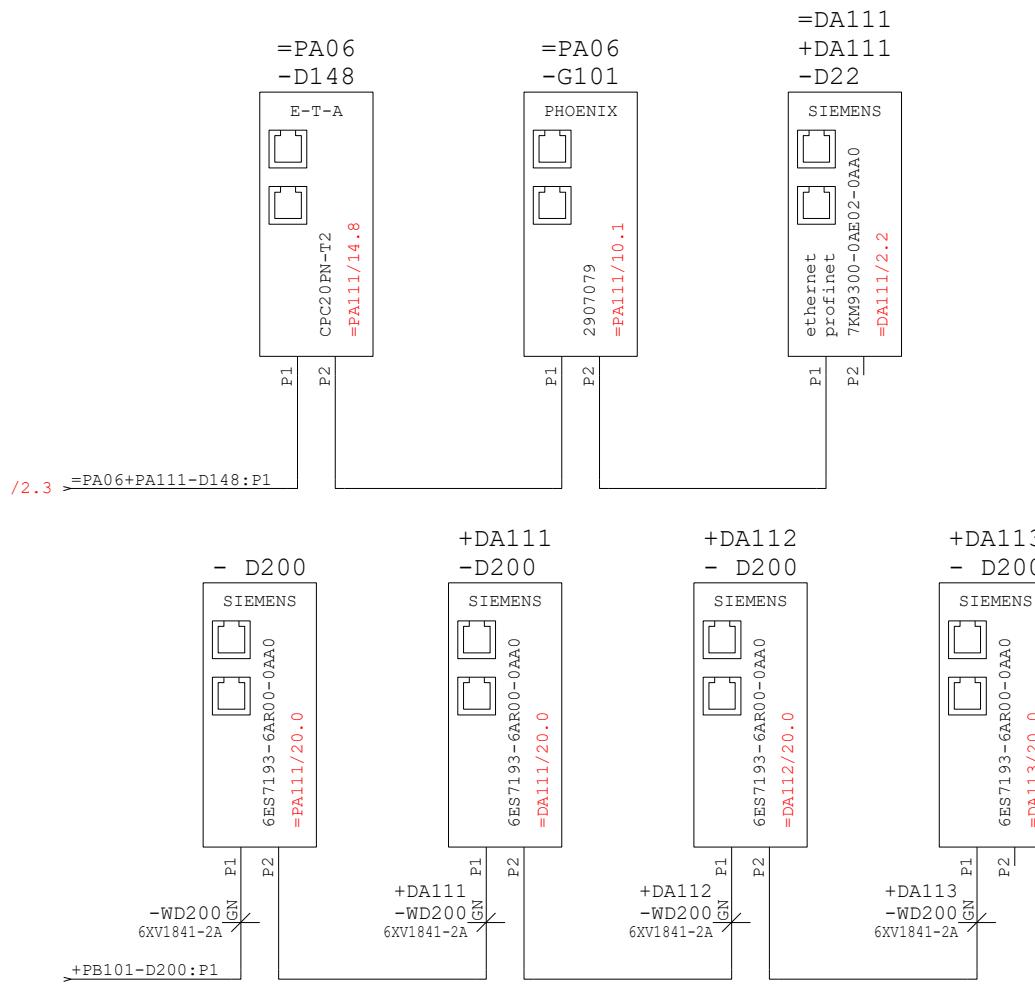
146L-

=PA111/14.7

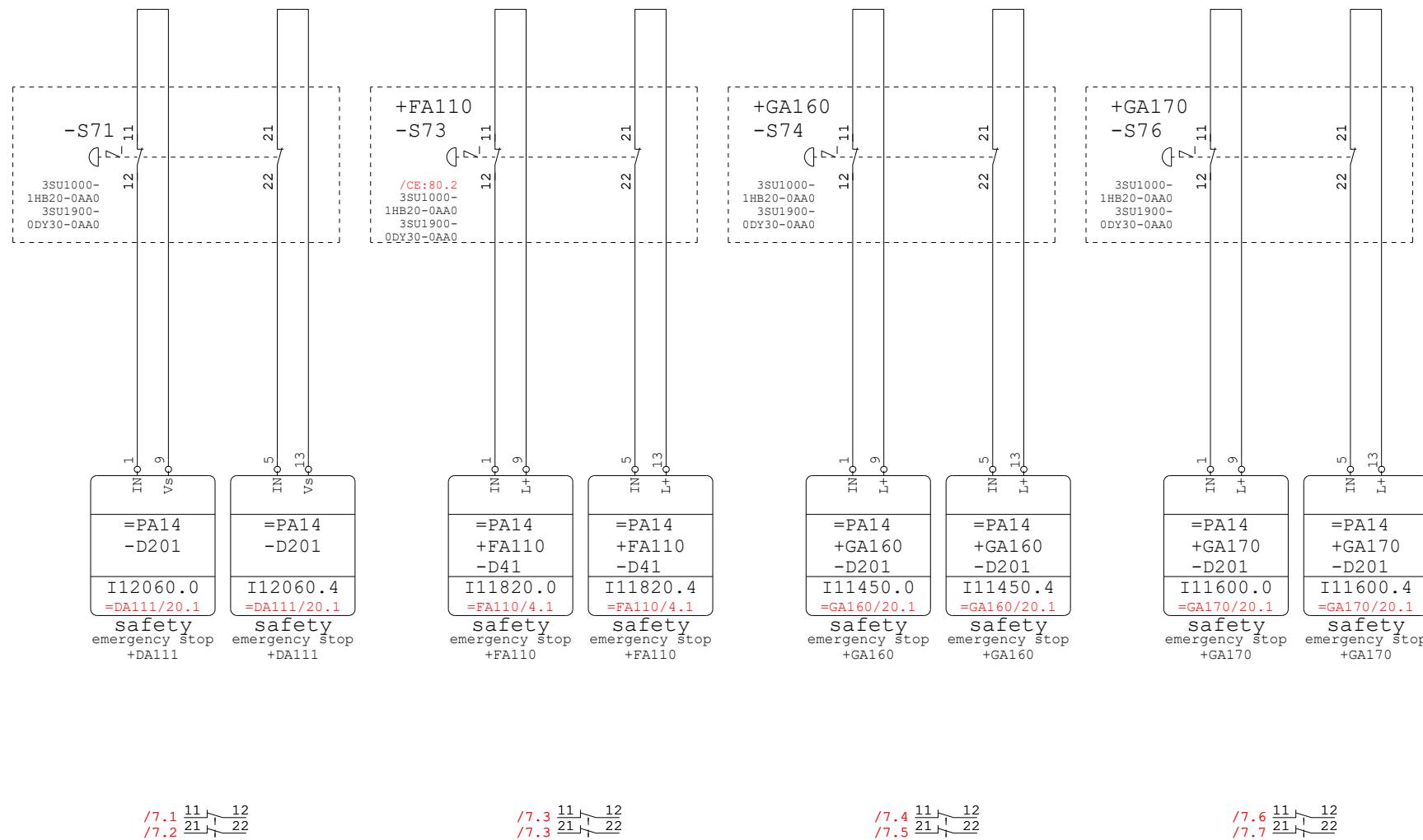
117L+



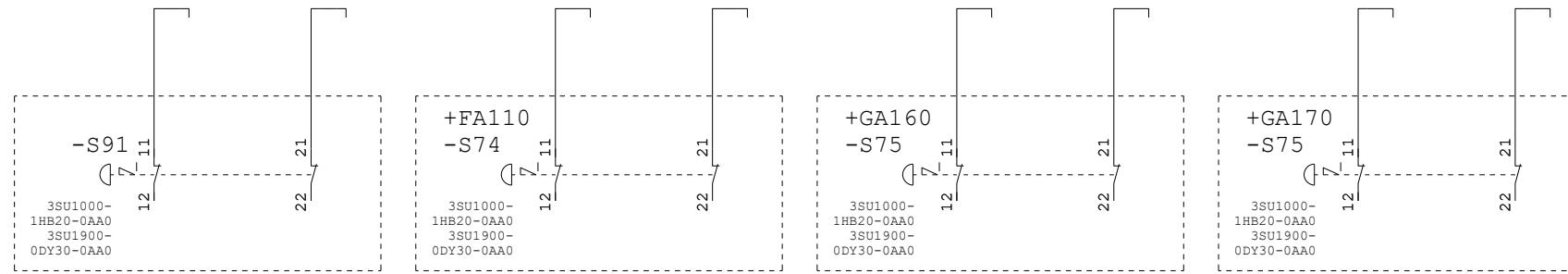
date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	PLC network TCP / IP network - switch	=PA13
drn by	iA Pohli M				+PA111
check					page: 2
chg.					next page: 3



date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING E.3598	PLC network TCP / IP network - cabinets	=PA13
drn by	iA Pohli M				+PA111
check					page: 3
chg.					next page: =PA40+DA111/7



date	2023-11-29	BMG FOS	KNAUF ENGINEERING	emergency-stop-area - general emergency stop chain	=PA40
drn by	iA Pohli M	Route du Quai Minéralier			+DA111
check		13270 Fos-Sur-Mer			page: 7
chg.		France			next page: 9
This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!					



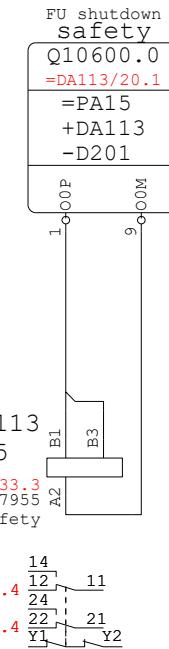
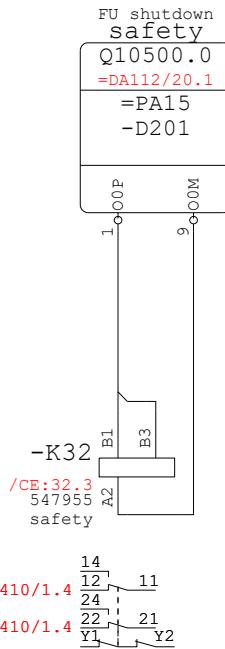
/9/9 1111 1212
 /9/9.3 2121 2222

/9.4 11 12
 /9.5 21 22

/9.6 11 12
 /9.7 21 22

date	2023-10-27	BMG FOS	KNAUF ENGINEERING E.3598	emergency-stop-area - general	=PA40
drn by	iA Pohli M	Route du Quai Minéralier			+
check		13270 Fos-Sur-Mer			page: 9
chg.		France			next page: =PA41/1

date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	KNAUF ENGINEERING E.3598	raw material - safety group 1 (LOTO1) overview	=PA41 + page: 1 next page: 3
This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!					

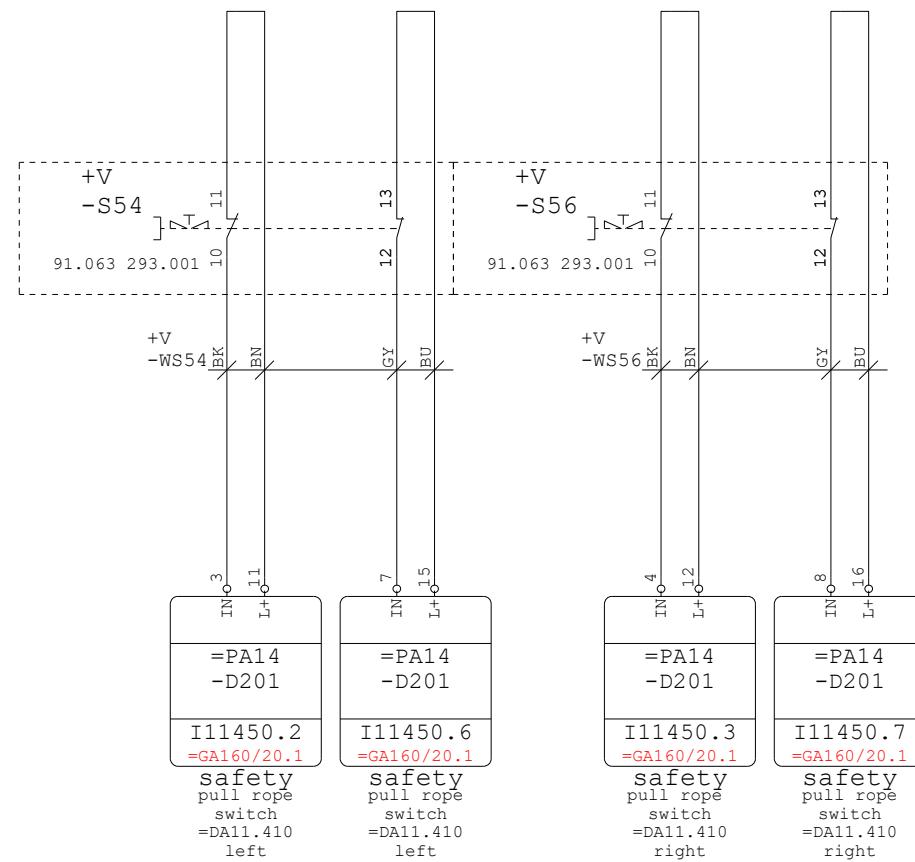
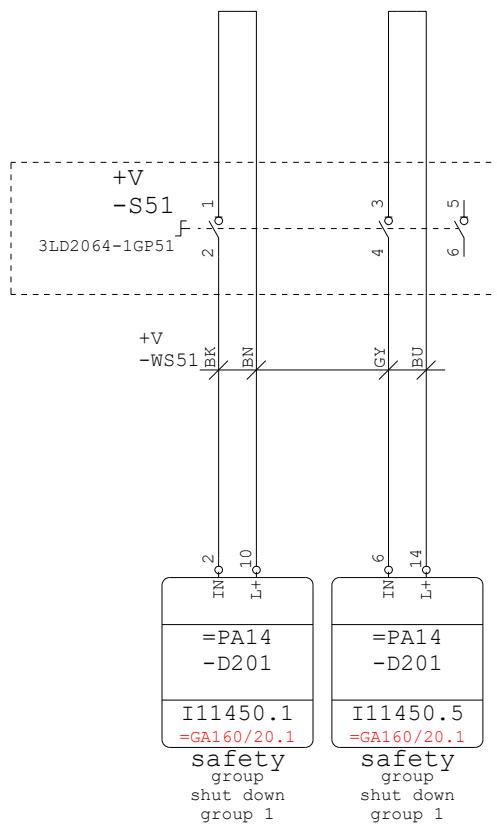


date	2023-10-27	BMG FOS
drn by	iA Pohli M	Route du Quai Minéralier
check		13270 Fos-Sur-Mer
chg.		France



raw material - safety group 1 (LOTO1)
contactors / relay / valves (safety)

=PA41
+DA112
page: 3
next page: 5



date	2023-10-27
drn by	iA Pohli M
check	
chg.	

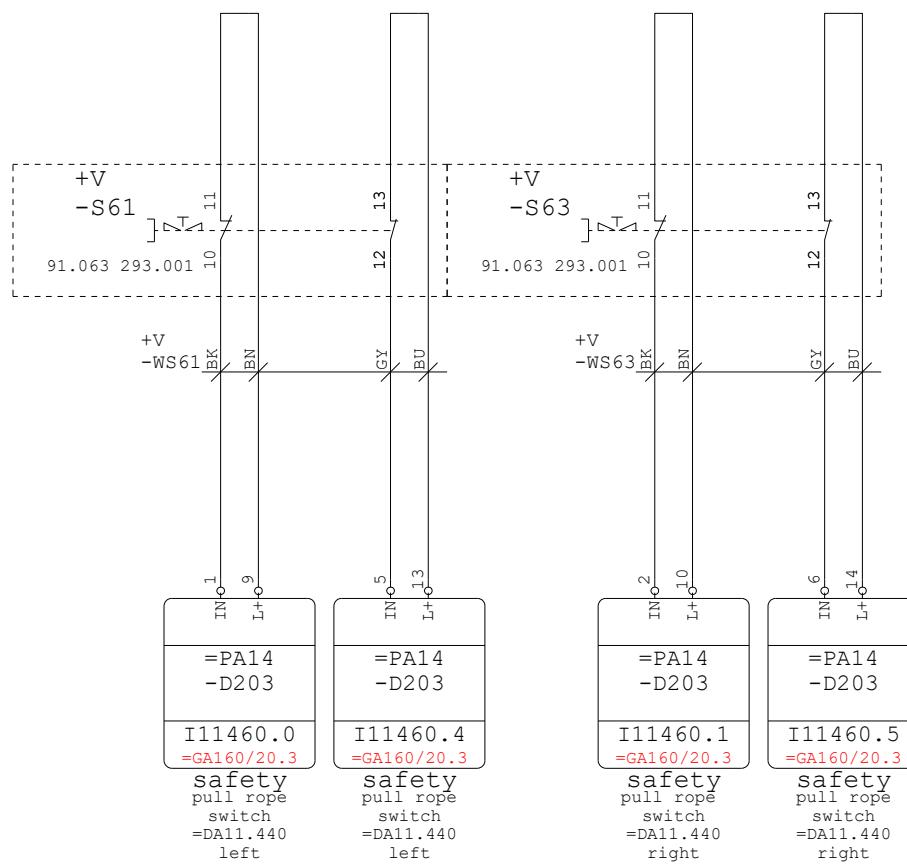
BMG FOS
Route du Quai Minéralier
13270 Fos-Sur-Mer
France

knauf ENGINEERING
E.3598

raw material - safety group 1 (LOTO1)

switch and sensors

=PA41
+GA160
page: 5
next page: 6



date	2023-10-27	BMG FOS
drn by	iA Pohli M	Route du Quai Minéralier
check		13270 Fos-Sur-Mer
chg.		France



raw material - safety group 1 (LOTO1)

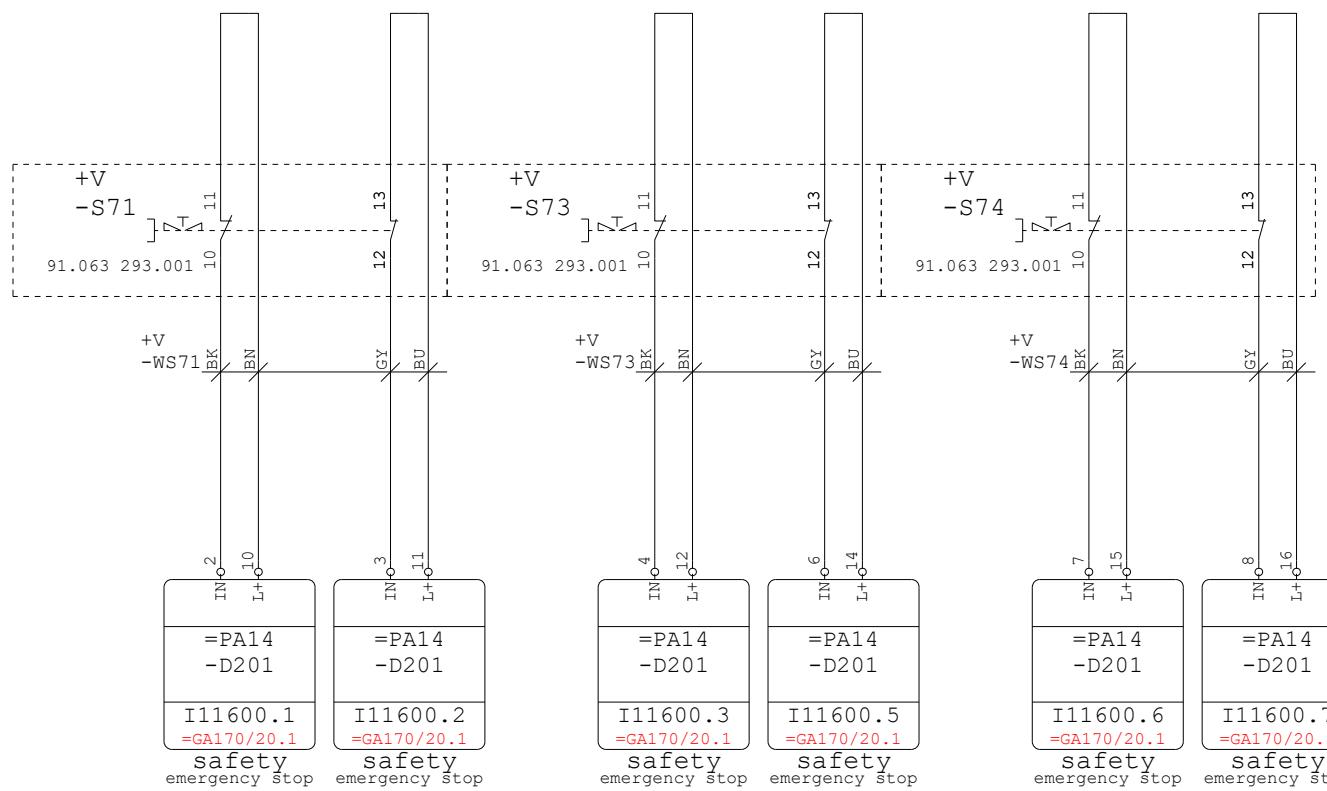
switch and sensors

=PA41

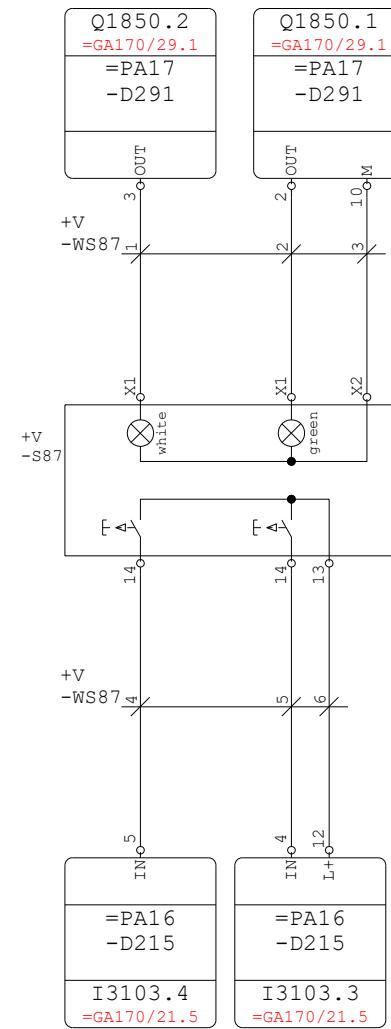
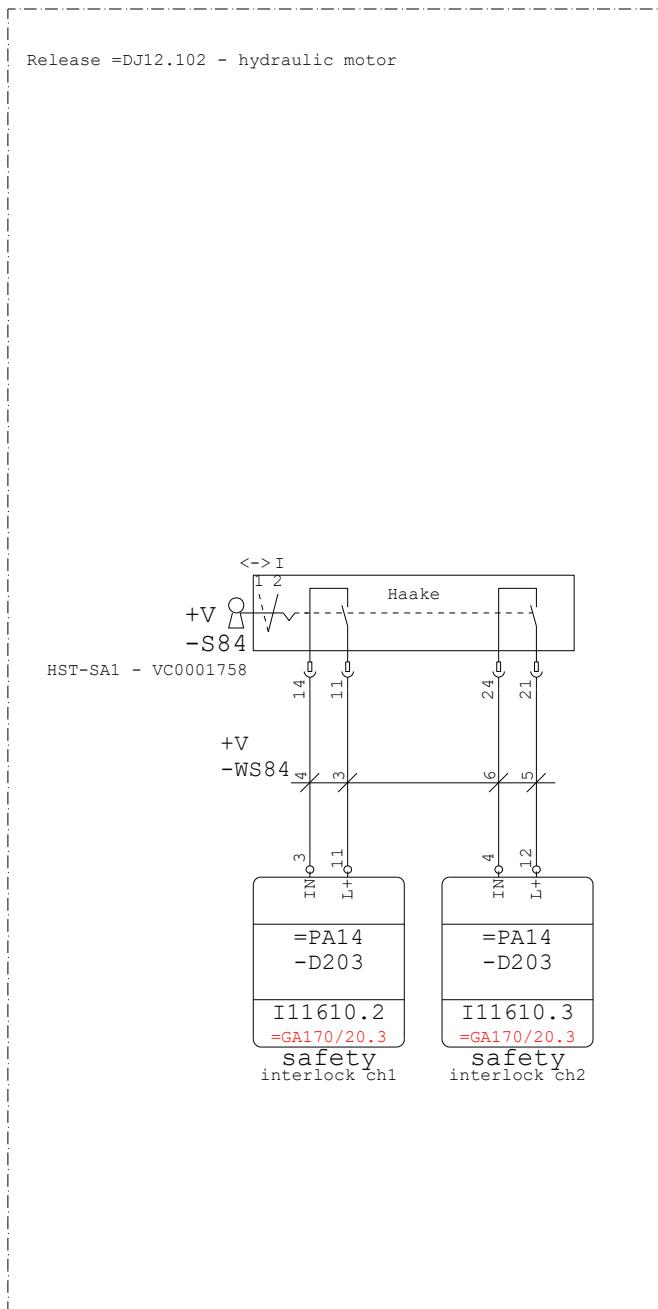
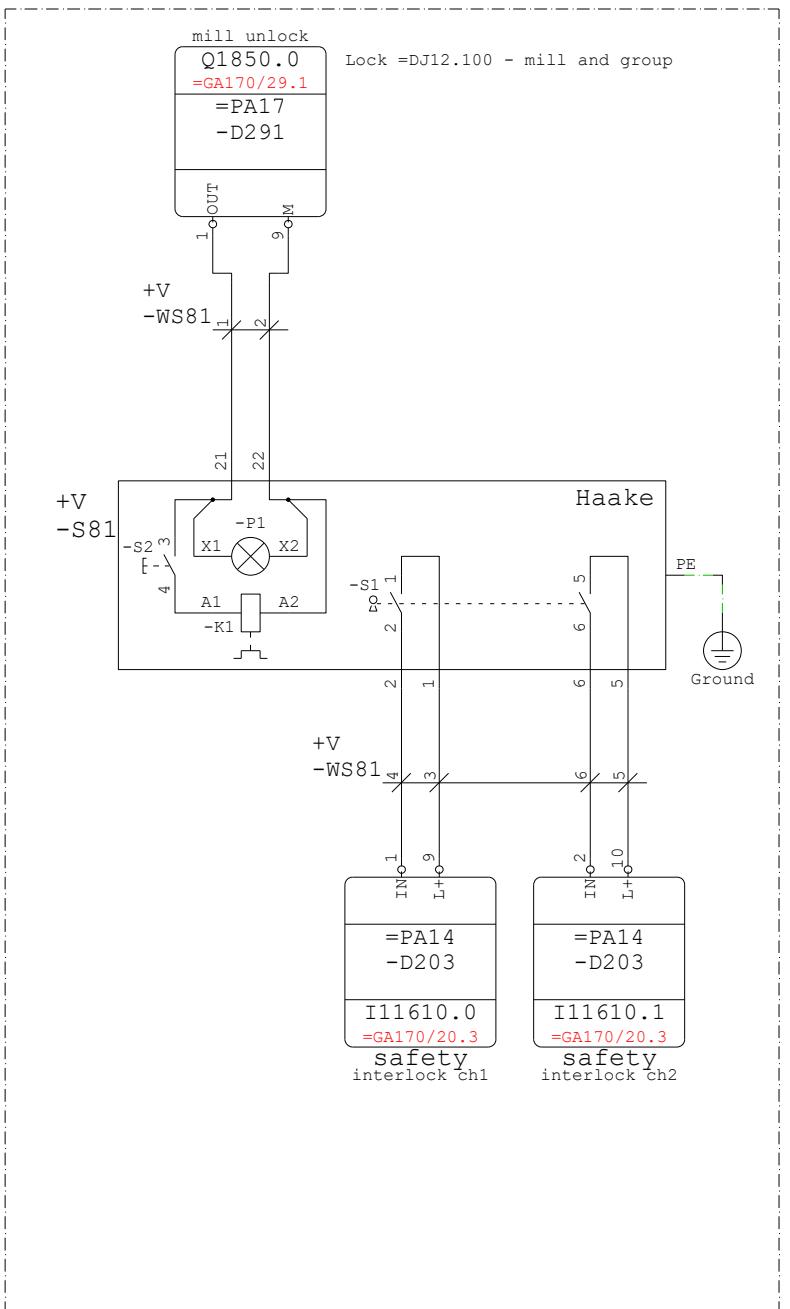
+GA160

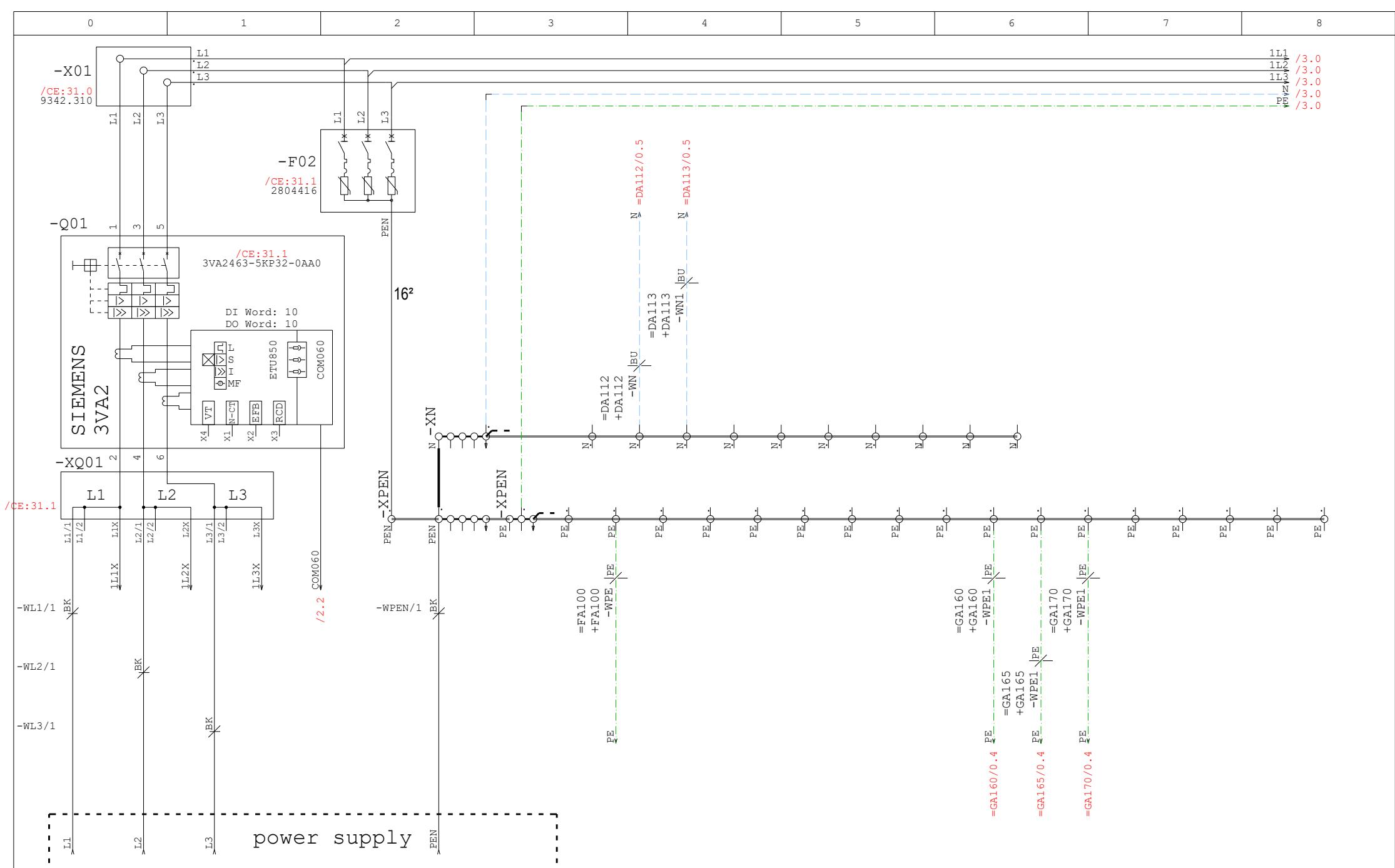
page: 6

next page: 7



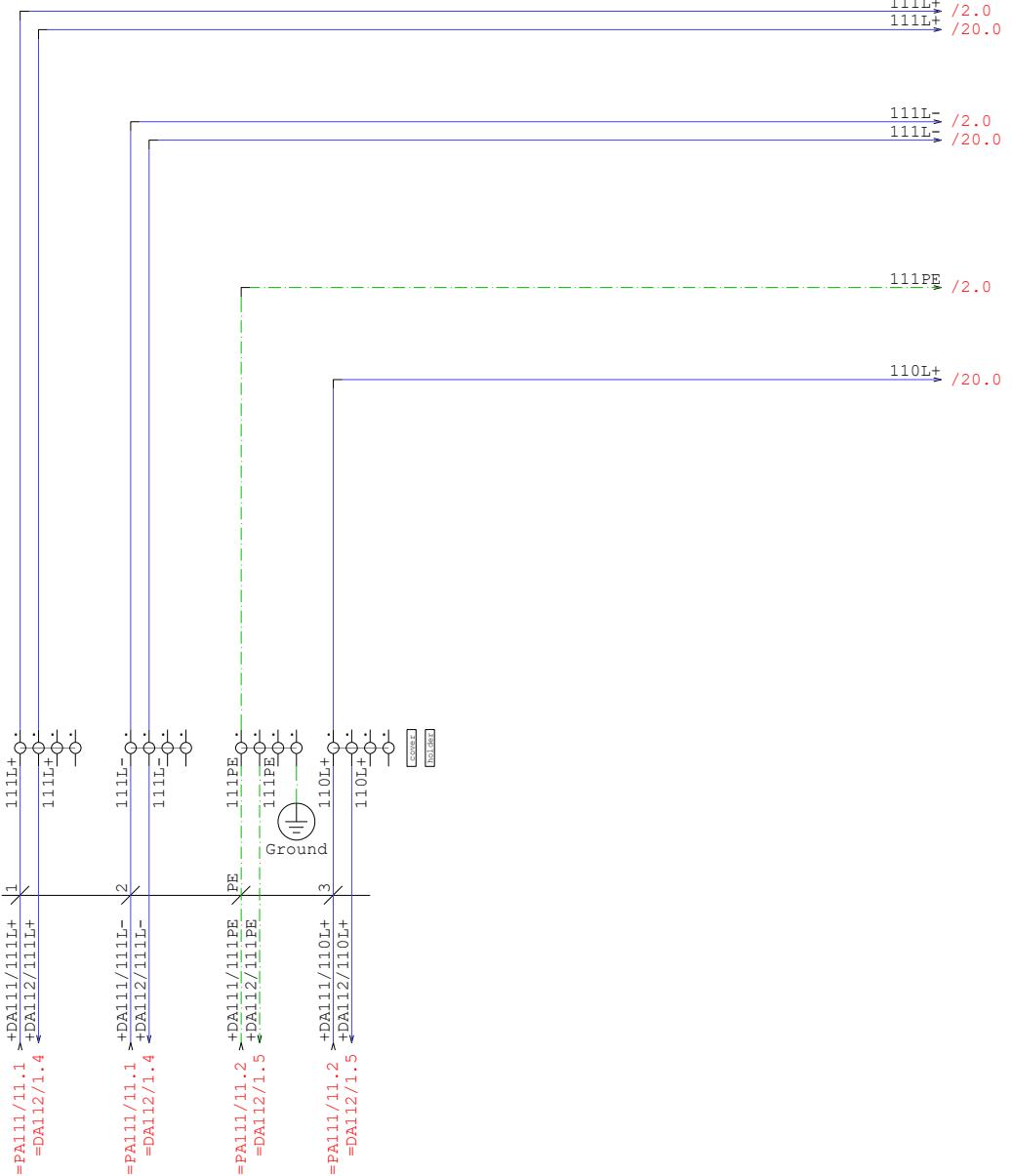
date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	raw material - safety group 1 (LOTO1) switch and sensors	=PA41 +GA170 page: 7 next page: 8
This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!					





date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	mounting plate - power supply	=DA111
drn by	iA Pohli M				+DA111
check				Supply - AC 230/400 V	page: 0
chg.				E.3598	next page: 1

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!



date 2023-10-27

BMG FOS

drn by iA Pohli M

Route du Quai Minéralier

check 13270 Fos-Sur-Mer

France

chg.

knauf ENGINEERING
E.3598

mounting plate - power supply

Supply - DC 24 V

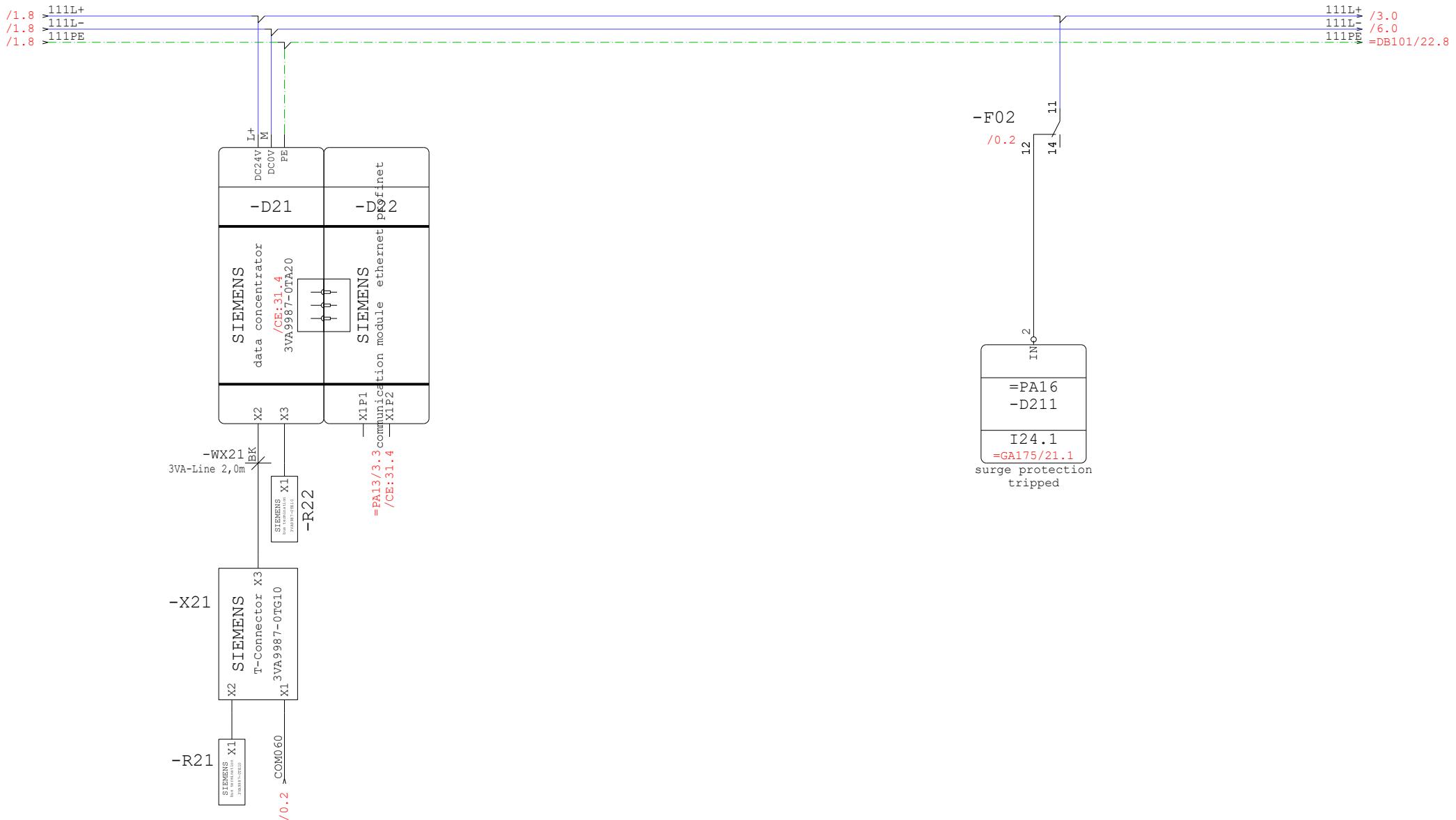
=DA111

+DA111

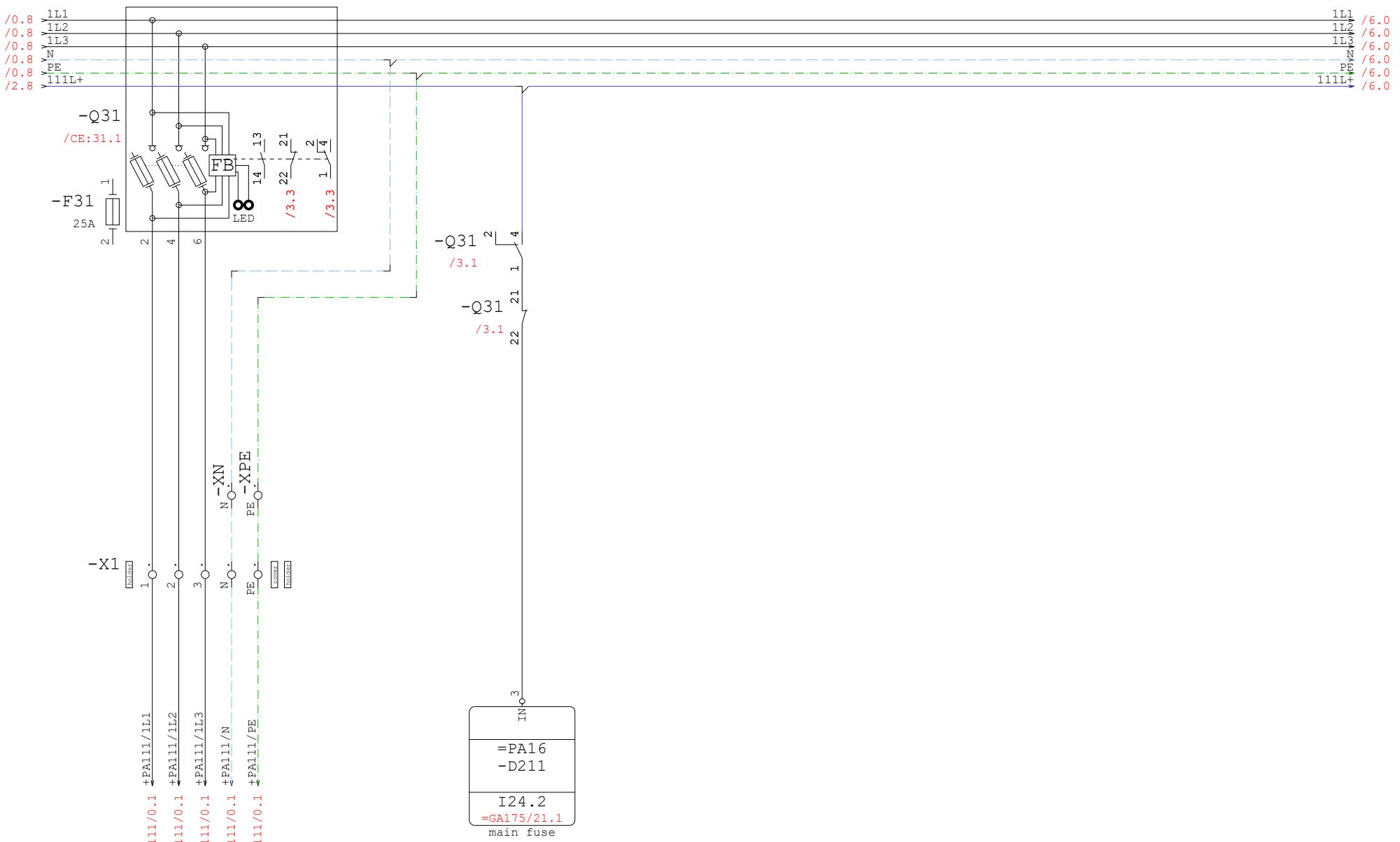
page: 1

next page: 2

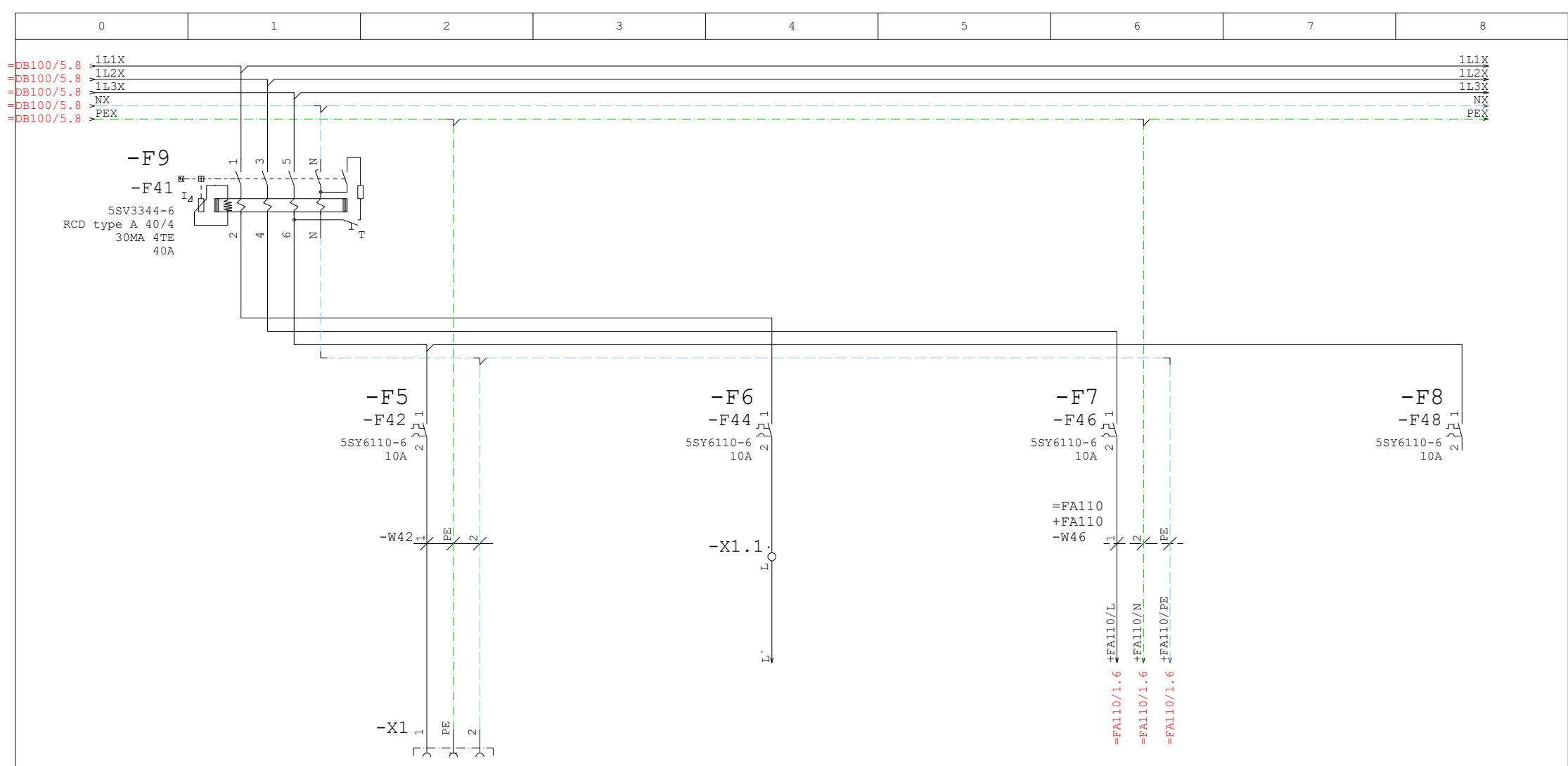
0	1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---	---



date	2023-10-27	BMG FOS	knauf ENGINEERING E.3598	mounting plate - power supply main switch - evaluation	=DA111
drn by	iA Pohli M	Route du Quai Minéralier			+DA111
check		13270 Fos-Sur-Mer			page: 2
chg.		France			next page: 3

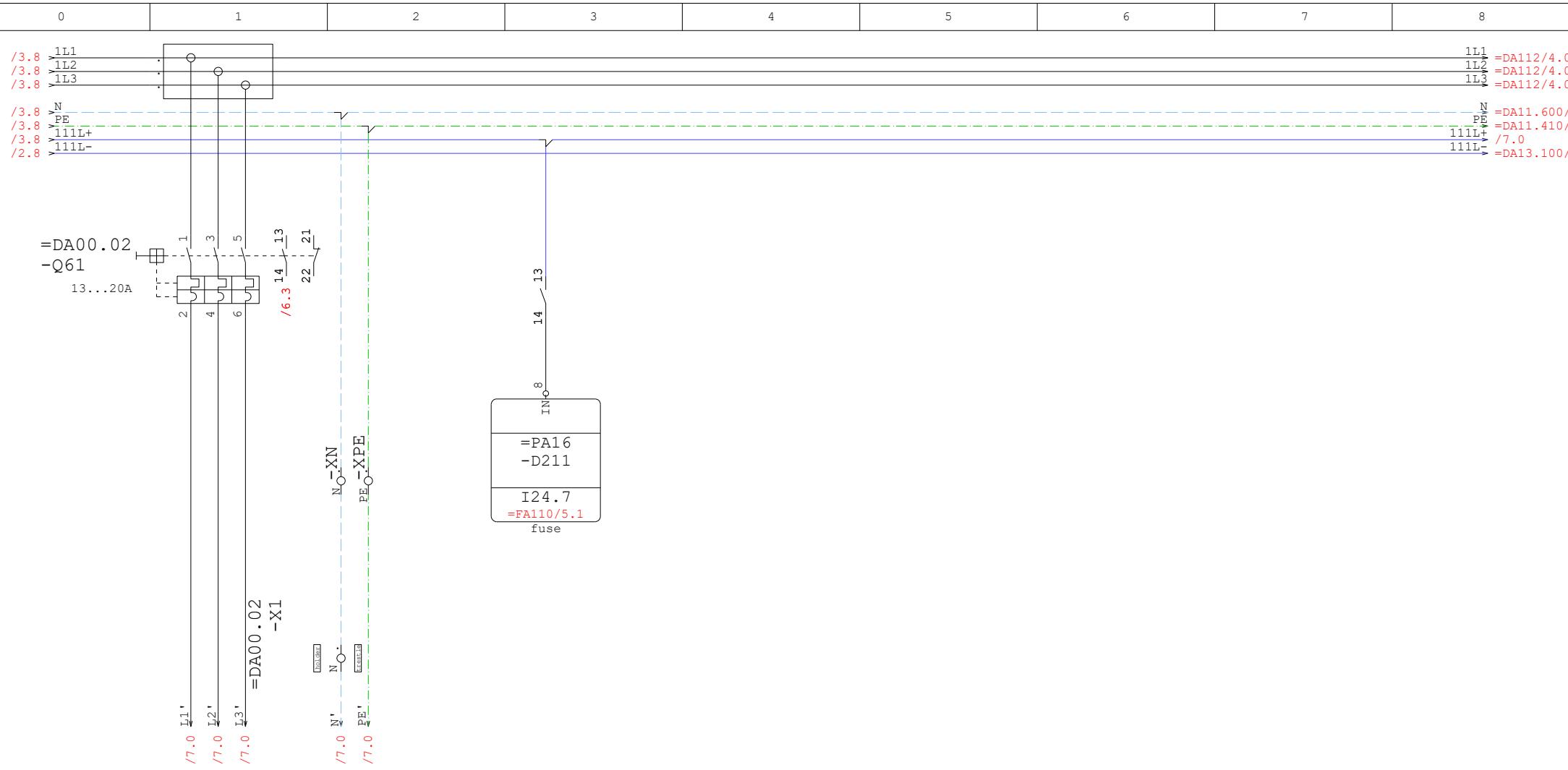


date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	mounting plate - power supply power supply - general	=DA111
drn by	iA Pohli M				+DA111
check					page: 3
chg.					next page: 4



date	2023-10-27	BMG FOS	knauf ENGINEERING E.3598	mounting plate - power supply	=DA111
drn by	iA Pohli M	Route du Quai Minéralier			+DA111
check		13270 Fos-Sur-Mer			page: 4
chg.		France			next page: 6

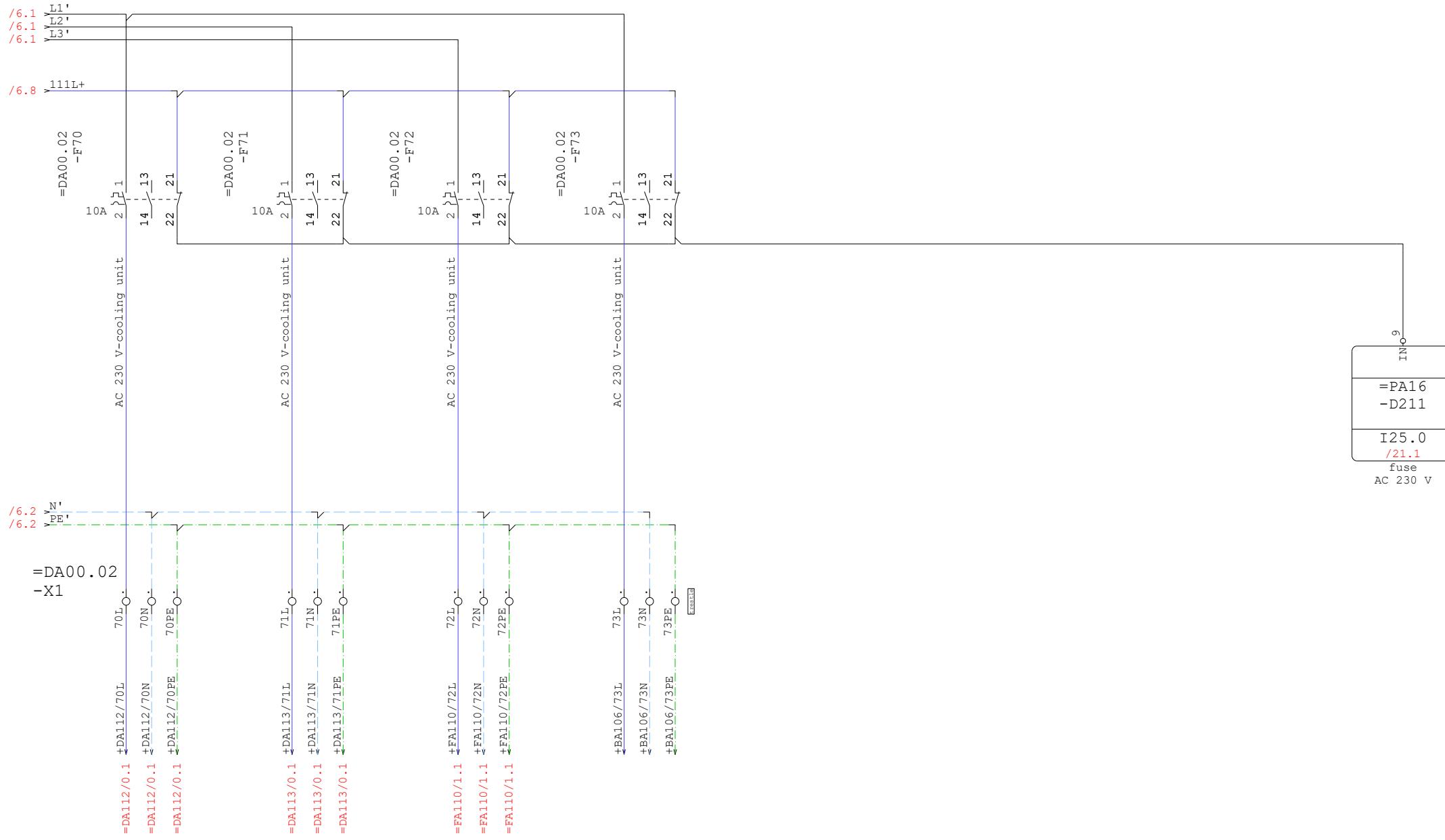
This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!



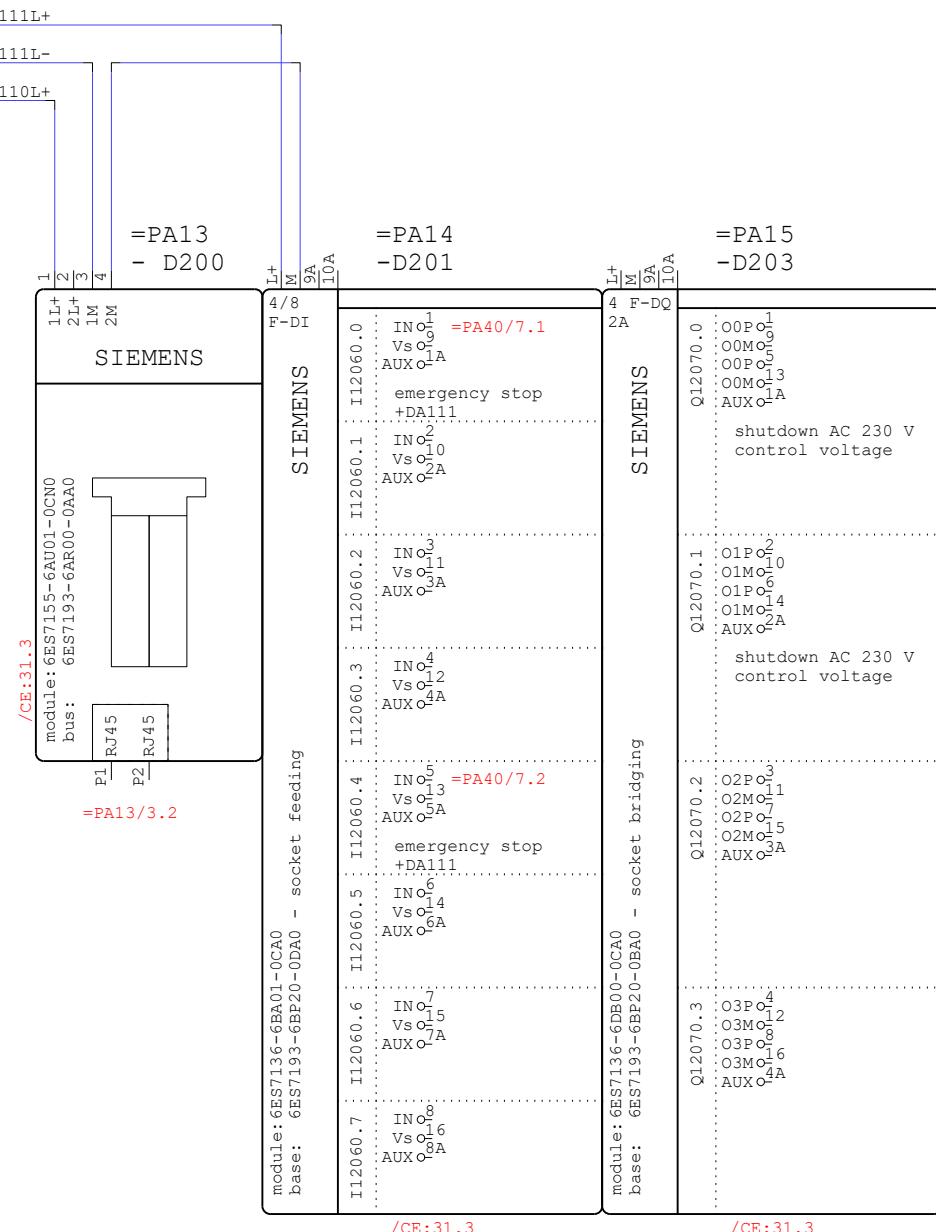
date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	mounting plate - power supply AC 230 V - supply	=DA111
drn by	iA Pohli M				+DA111
check					page: 6
chg.					next page: 7

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!

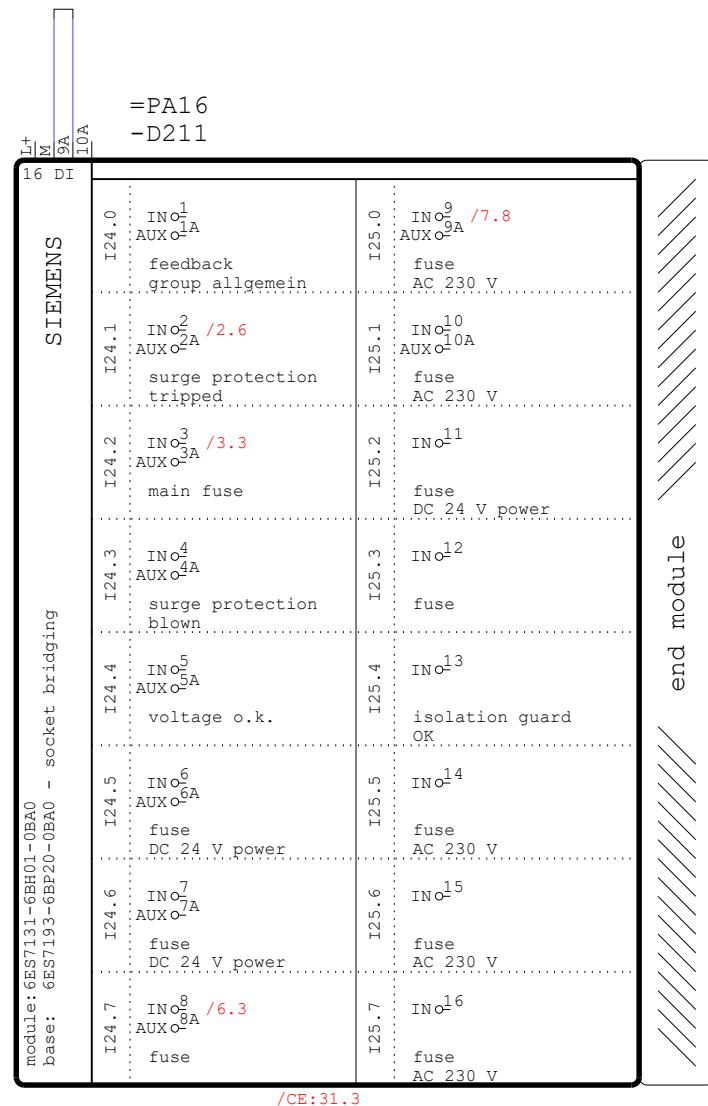
0 1 2 3 4 5 6 7 8



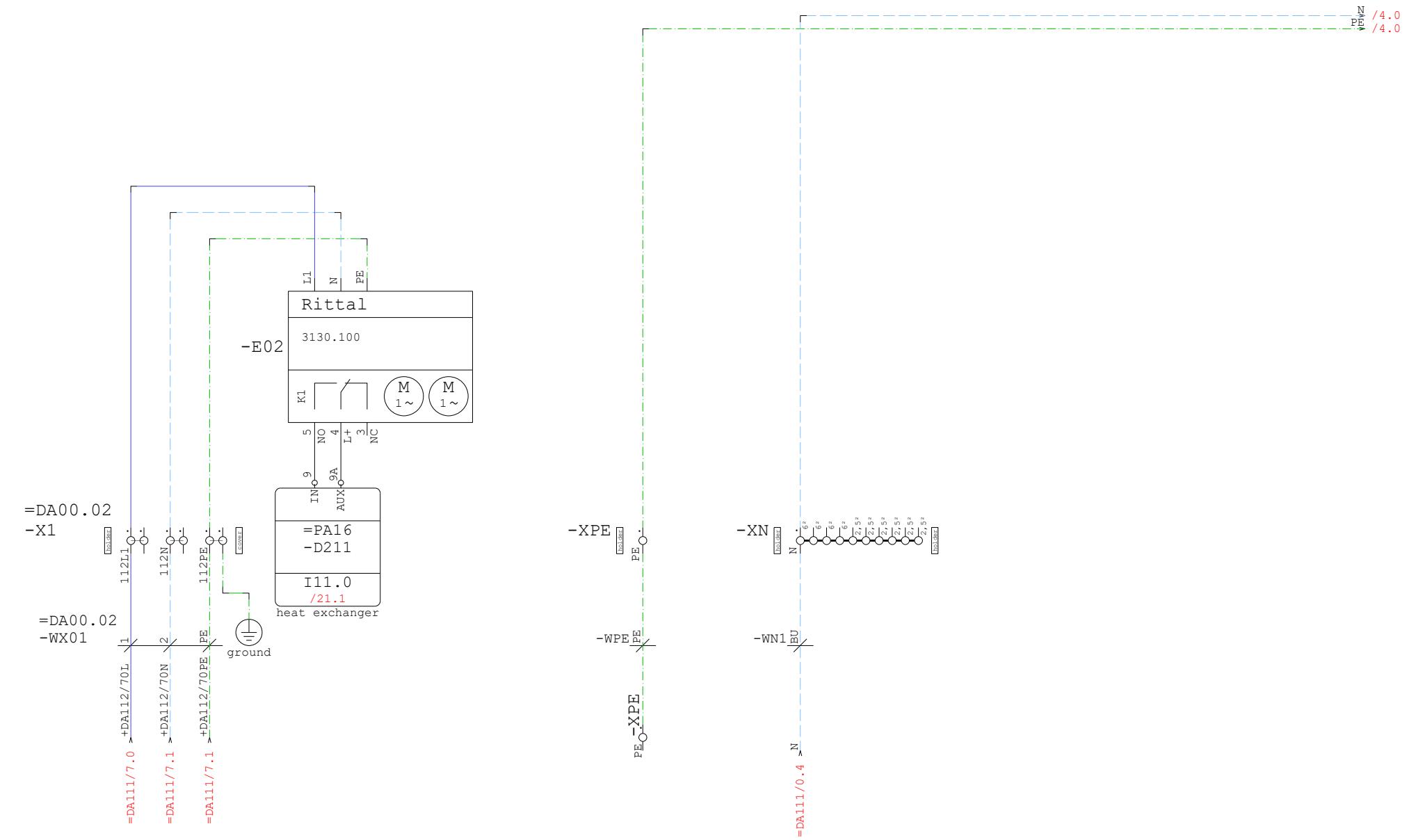
date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	 E.3598	mounting plate - power supply	=DA111
drn by	iA Pohli M			+DA111	
check					page: 7
chg.					next page: 20



date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	KNAUF ENGINEERING E.3598	mounting plate - power supply	=DA111
drn by	iA Pohli M			PLC - interface module + safety	+DA111
check					page: 20
chg.					next page: 21



date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	mounting plate - power supply PLC - digital inputs	=DA111
drn by	iA Pohli M				+DA111
check					page: 21
chg.					next page: =DA112+DA112/0



date 2023-10-27

BMG FOS
Route du Quai Minéralier
13270 Fos-Sur-Mer
France

knauf ENGINEERING

E.3598

mounting plate - power section

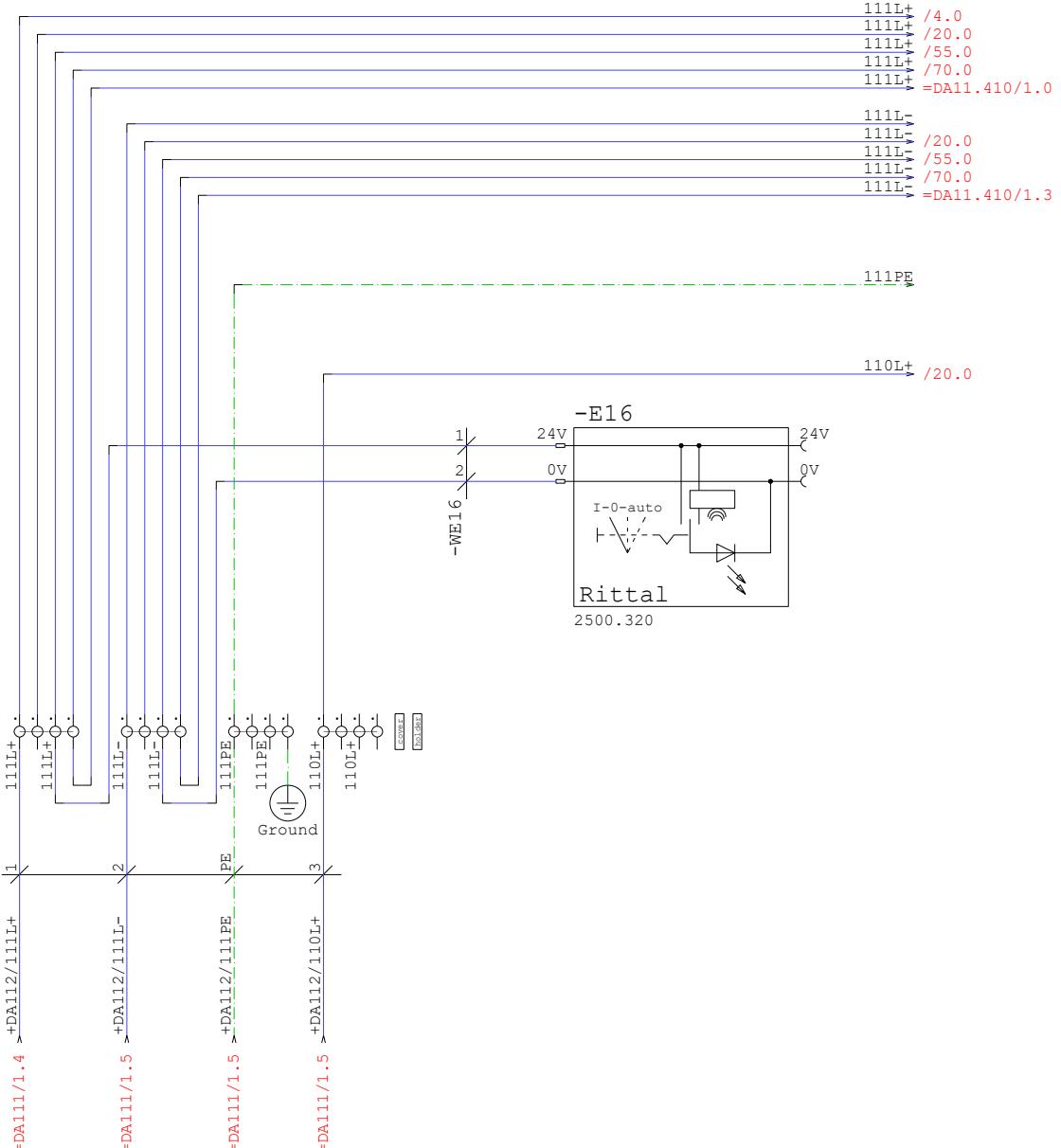
Supply - AC 230/400 V

=DA112

+DA112

page: 0

next page: 1



date 2023-10-27

BMG FOS
Route du Quai Minéralier
13270 Fos-Sur-Mer
France**knauf** ENGINEERING
E.3598

mounting plate - power section

Supply - DC 24 V

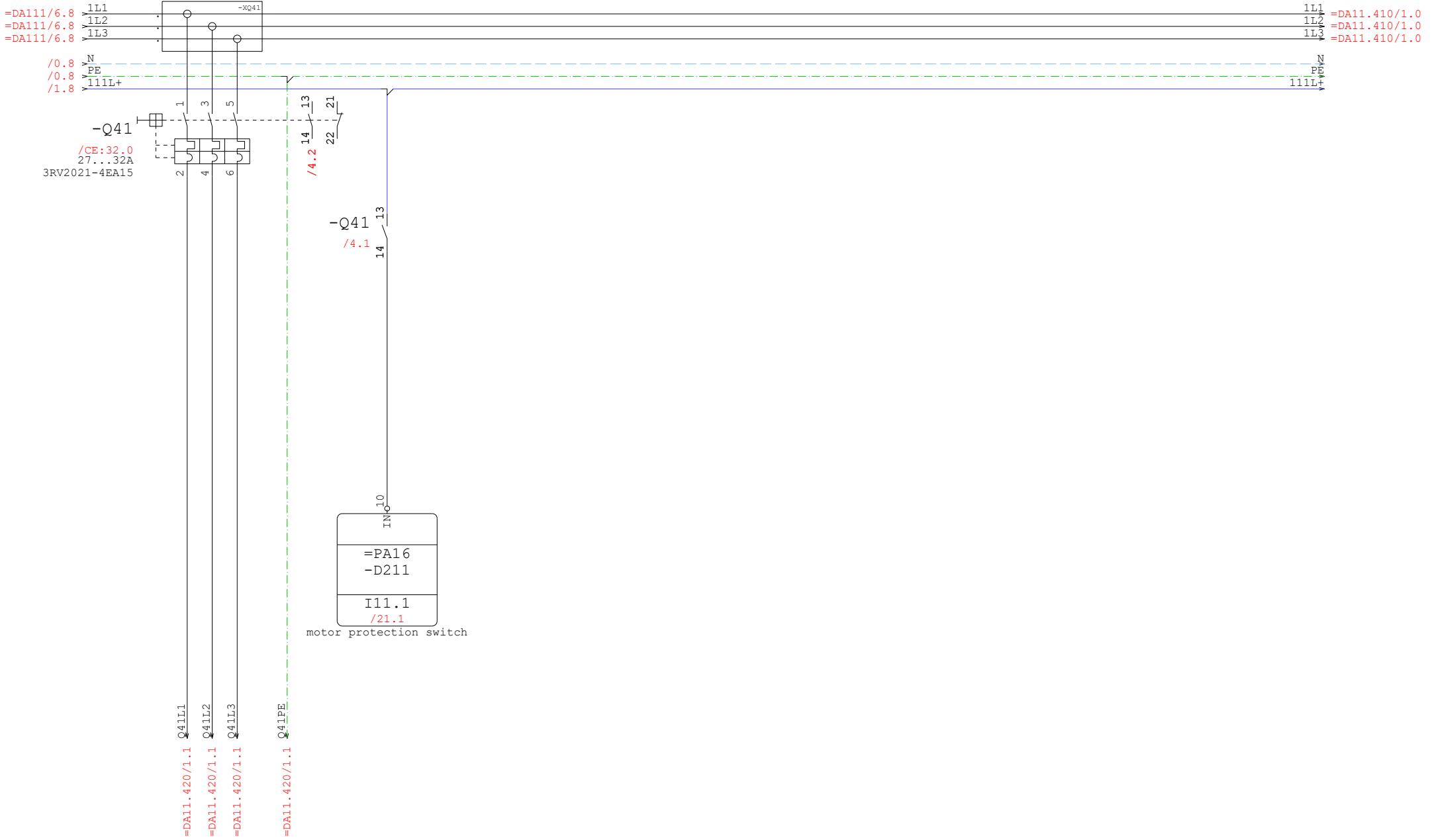
=DA112

+DA112

page: 1

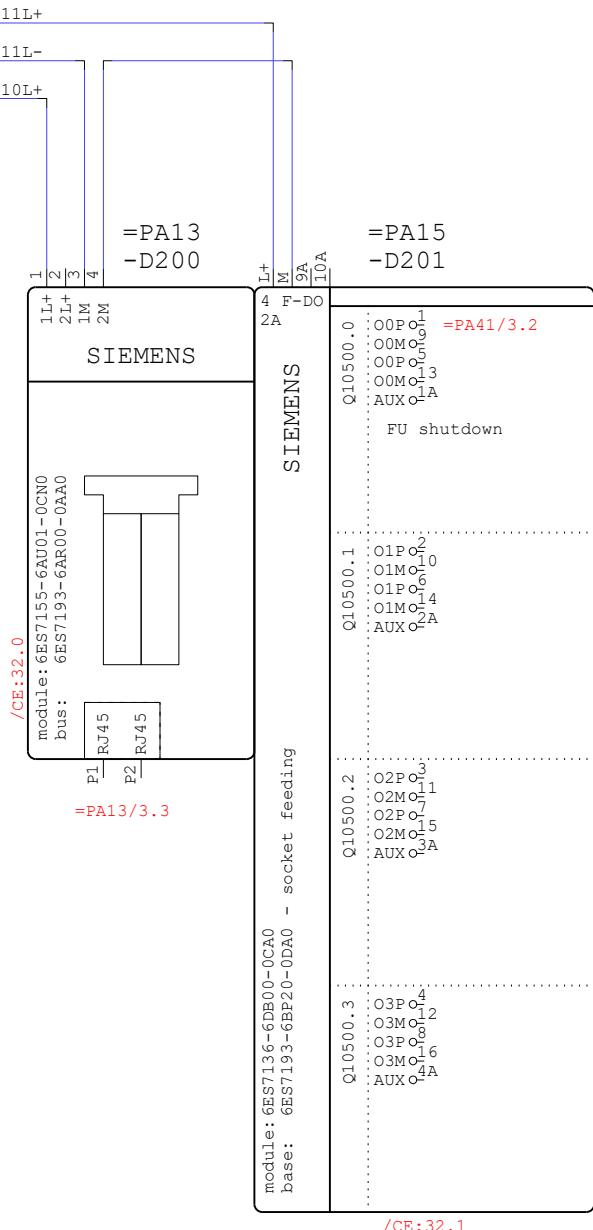
next page: 4

0	1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---	---

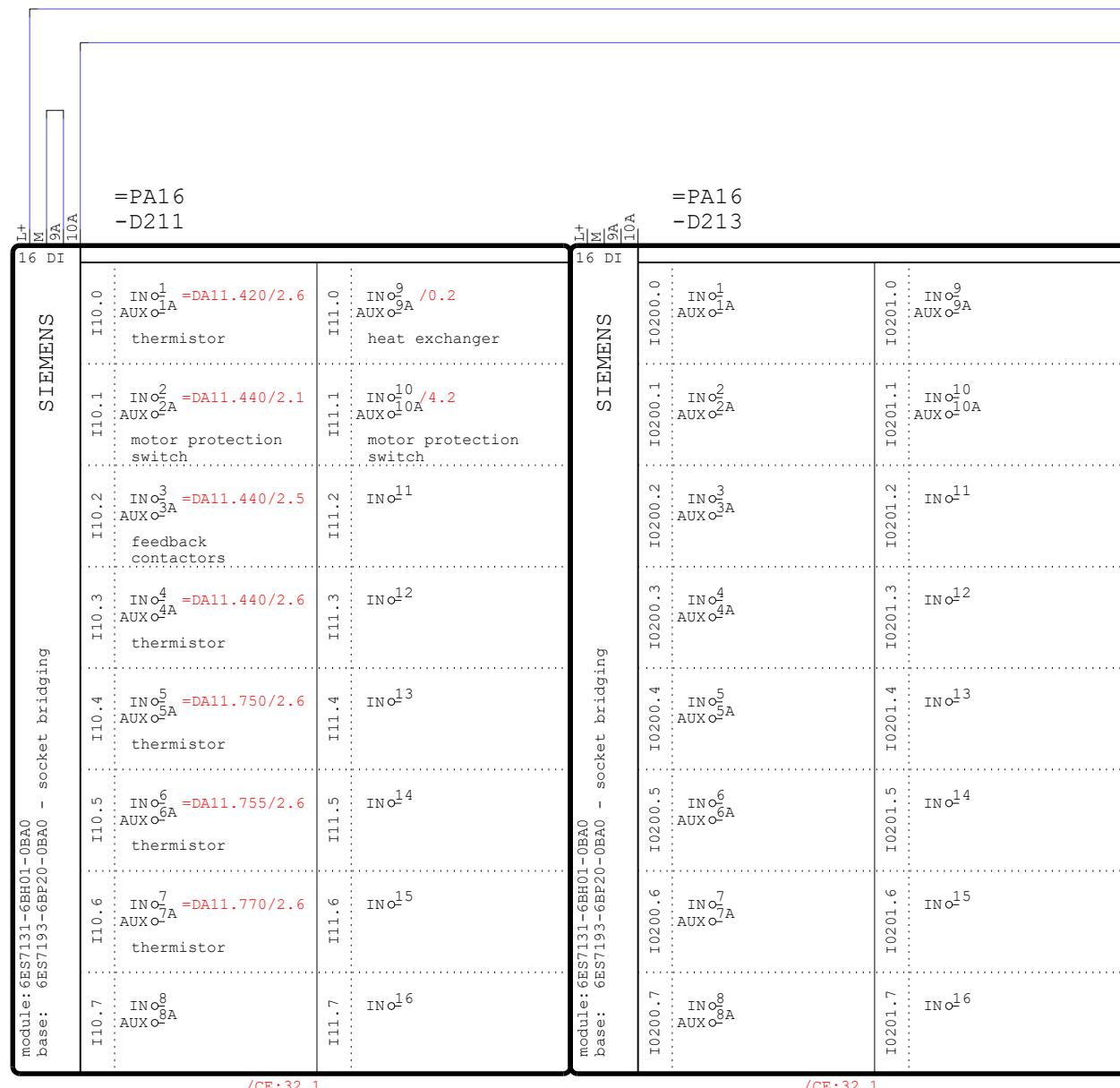


date	2023-10-27	BMG FOS	knauf ENGINEERING E.3598	mounting plate - power section	=DA112
drn by	iA Pohli M	Route du Quai Minéralier		+DA112	
check		13270 Fos-Sur-Mer		page: 4	
chg.		France		next page: 20	

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!



date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	mounting plate - power section PLC - interface module + safety	=DA112
drn by	iA Pohli M				+DA112
check					page: 20
chg.					next page: 21

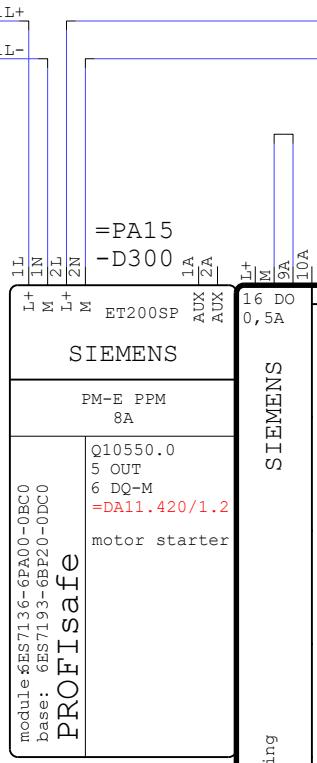


111L+ /30.0

111L- /30.0

date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	mounting plate - power section PLC - digital inputs	=DA112
drn by	iA Pohli M				+DA112
check					page: 21
chg.					next page: 30

0 1 2 3 4 5 6 7 8



module: 6ES7136-6PA00-0BC0
base: 6ES7193-6BP20-0DC0

module: 6ES7132-6BH01-0BA0
base: 6ES7193-6BP20-0BA0 - socket bridging

=PA17
-D301

16 DO
0,5A

SIEMENS

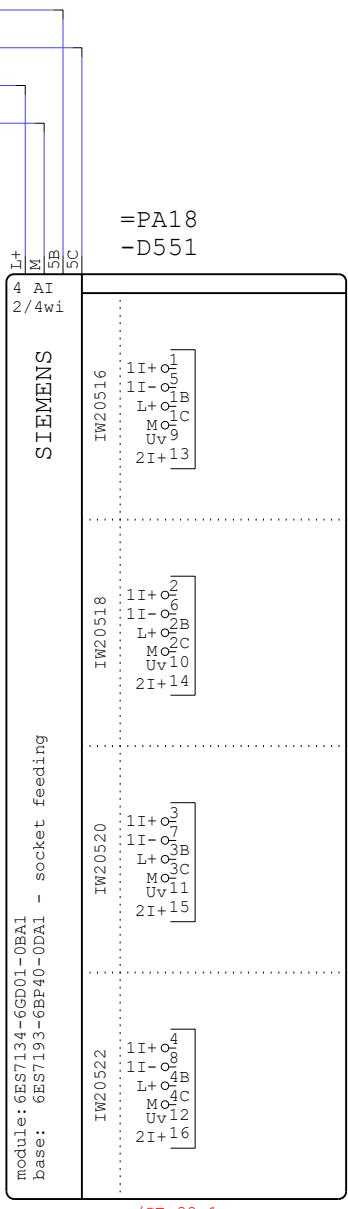
Q0200.0	Q0200.1	Q0200.0	OUT o ¹ AUX o ^{1A}
			main contactor
Q0200.2	Q0200.1	Q0200.1	OUT o ¹
			OUT o ² AUX o ^{2A}
			main contactor
Q0200.3	Q0200.2	Q0201.0	OUT o ¹
			OUT o ³ AUX o ^{3A}
Q0200.4	Q0200.3	Q0201.1	OUT o ¹
			OUT o ⁴ AUX o ^{4A}
Q0200.5	Q0200.4	Q0201.2	OUT o ¹
			OUT o ⁵ AUX o ^{5A}
Q0200.6	Q0200.5	Q0201.3	OUT o ¹
			OUT o ⁶ AUX o ^{6A}
Q0200.7	Q0200.6	Q0201.4	OUT o ¹
			OUT o ⁷ AUX o ^{7A}
		Q0201.5	OUT o ¹
		Q0201.6	OUT o ¹
		Q0201.7	OUT o ¹

/CE:32.1

group general

date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	mounting plate - power section PLC - digital outputs	=DA112
drn by	iA Pohli M				+DA112
check					page: 30
chg.					next page: 55
This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!					

/1.8 >111L+
 /1.8 >111L-
 /30.8 >111L+
 /30.8 >111L-



date 2023-10-27

BMG FOS
Route du Quai Minéralier

13270 Fos-Sur-Mer

France

knauf ENGINEERING

E.3598

mounting plate - power section

PLC - analog inputs

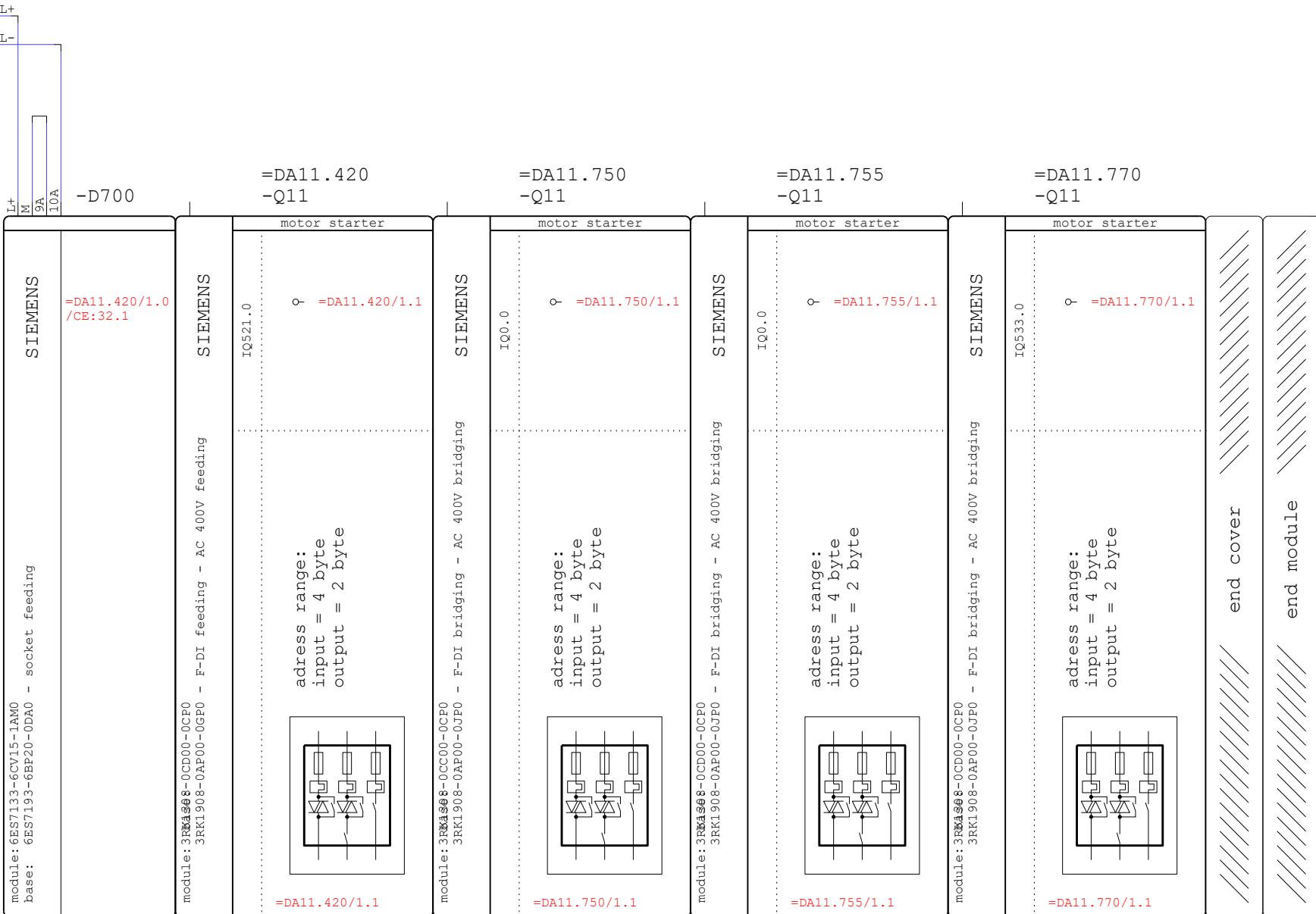
=DA112

+DA112

page: 55

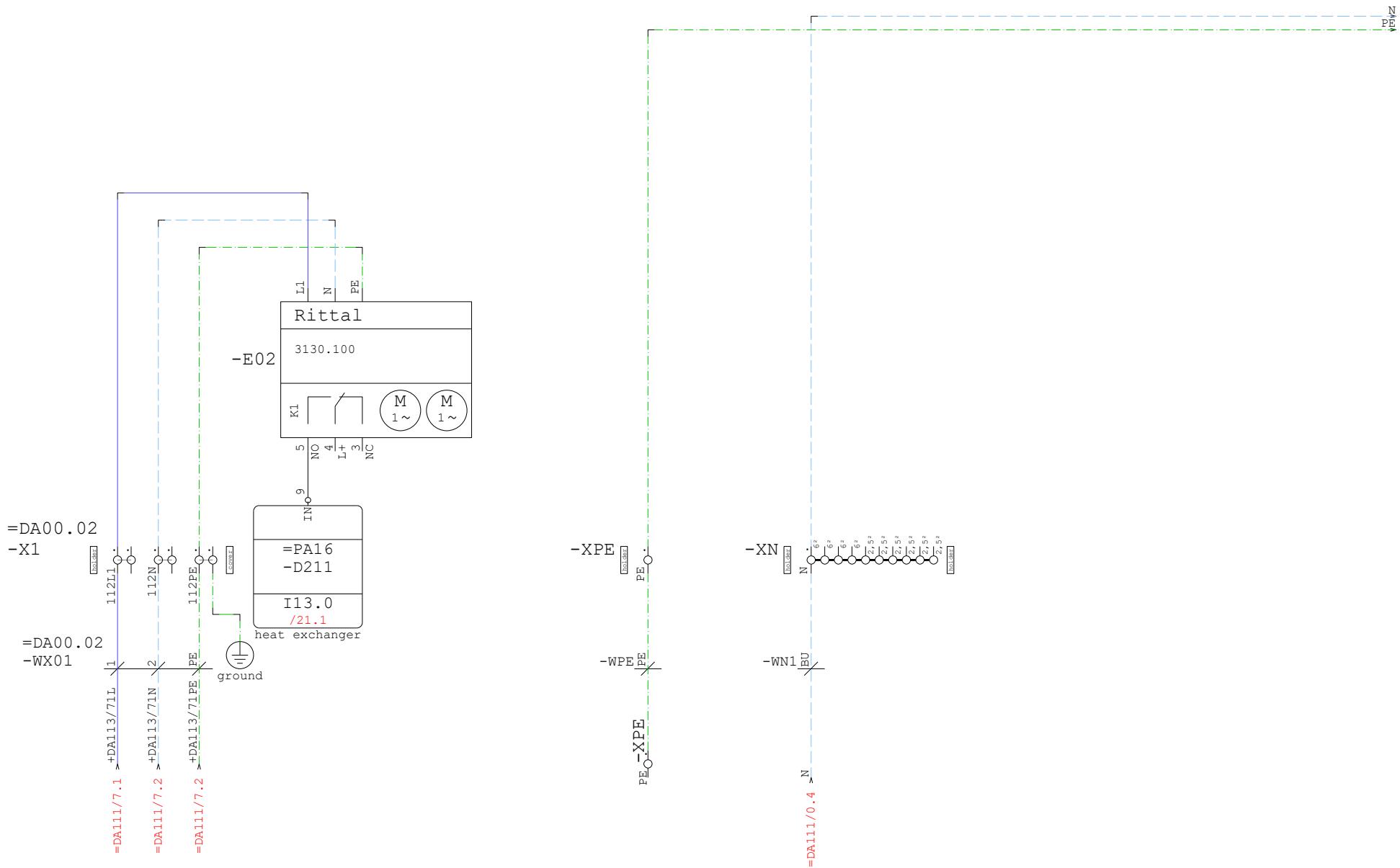
next page: 70

0 1 2 3 4 5 6 7 8



date	2023-10-27	BMG FOS		mounting plate - power section	=DA112
drn by	iA Pohli M	Route du Quai Minéralier	knauf ENGINEERING		+DA112
check		13270 Fos-Sur-Mer		PLC - motor starter	page: 70
chg.		France	E.3598		next page: =DA113+DA113/0

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!



date 2023-10-27

BMG FOS
Route du Quai Minéralier
13270 Fos-Sur-Mer
France

knauf ENGINEERING

mounting plate - power section

Supply - AC 230/400 V

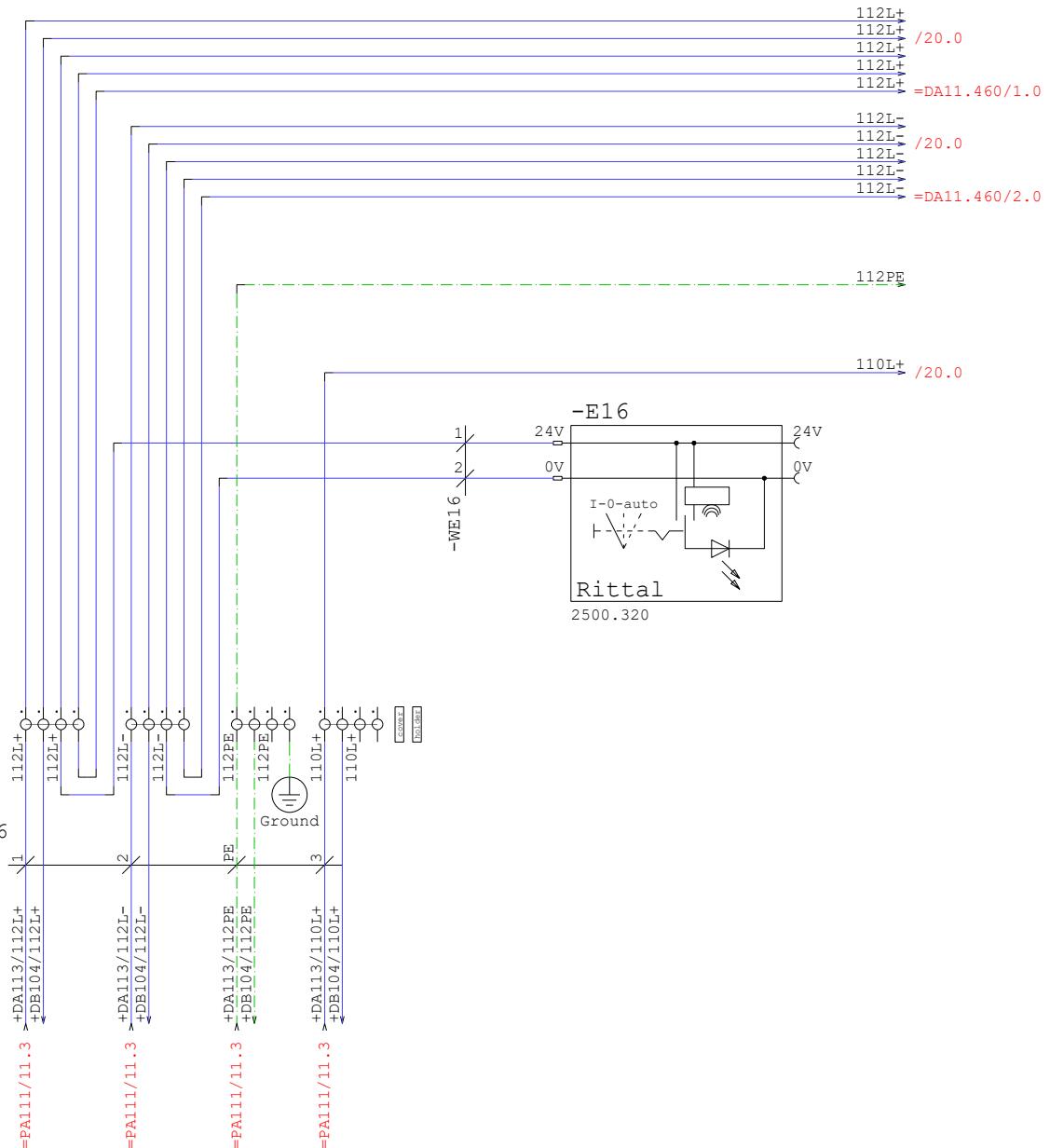
=DA113

+DA113

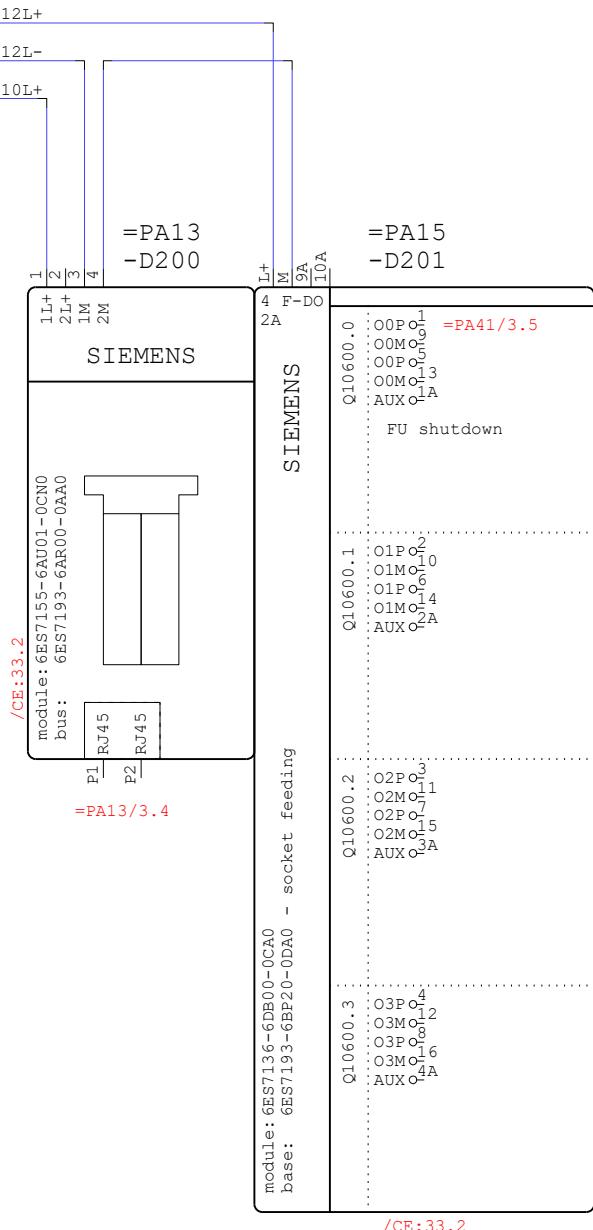
page: 0

next page: 1

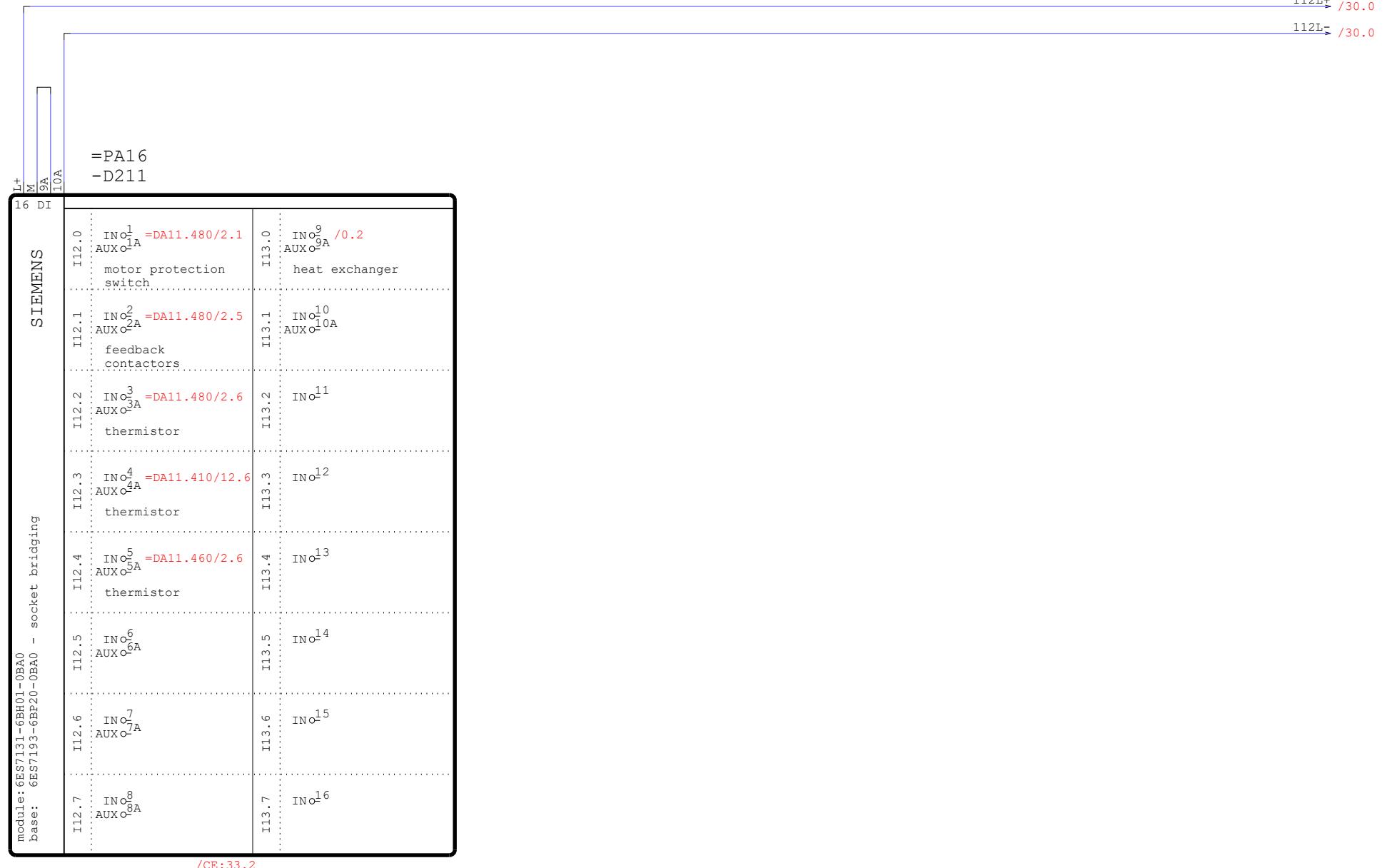
This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!



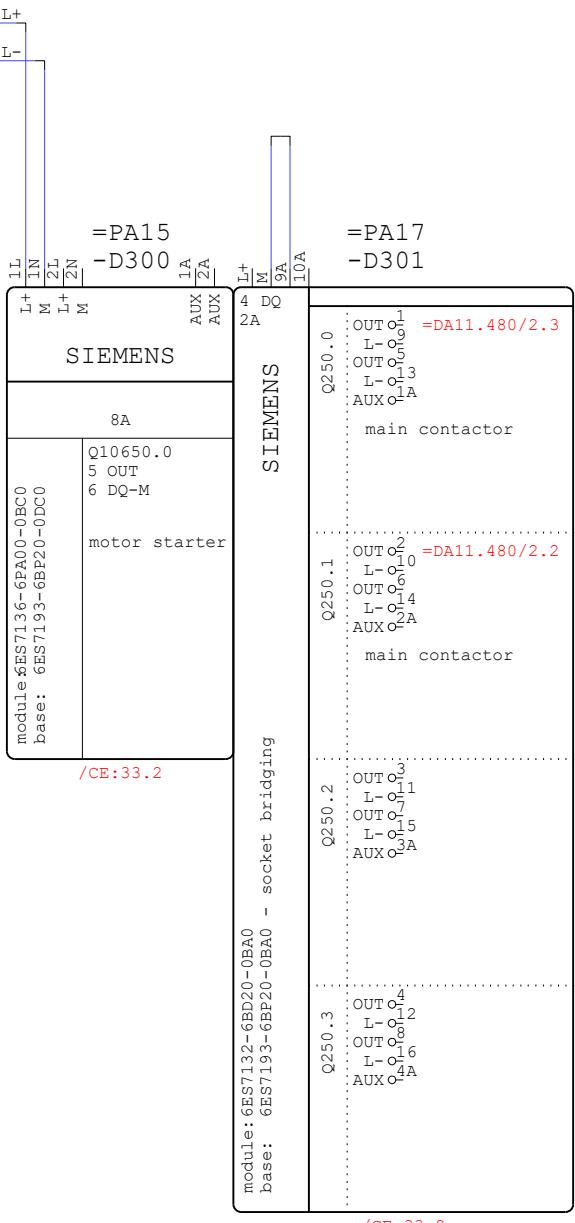
date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	mounting plate - power section Supply - DC 24 V	=DA113
drn by	iA Pohli M				+DA113
check					page: 1
chg.					next page: 20



date	2023-10-27	BMG FOS	knauf ENGINEERING	mounting plate - power section PLC - interface module + safety	=DA113
drn by	iA Pohli M	Route du Quai Minéralier			+DA113
check		13270 Fos-Sur-Mer			page: 20
chg.		France			next page: 21
This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!					



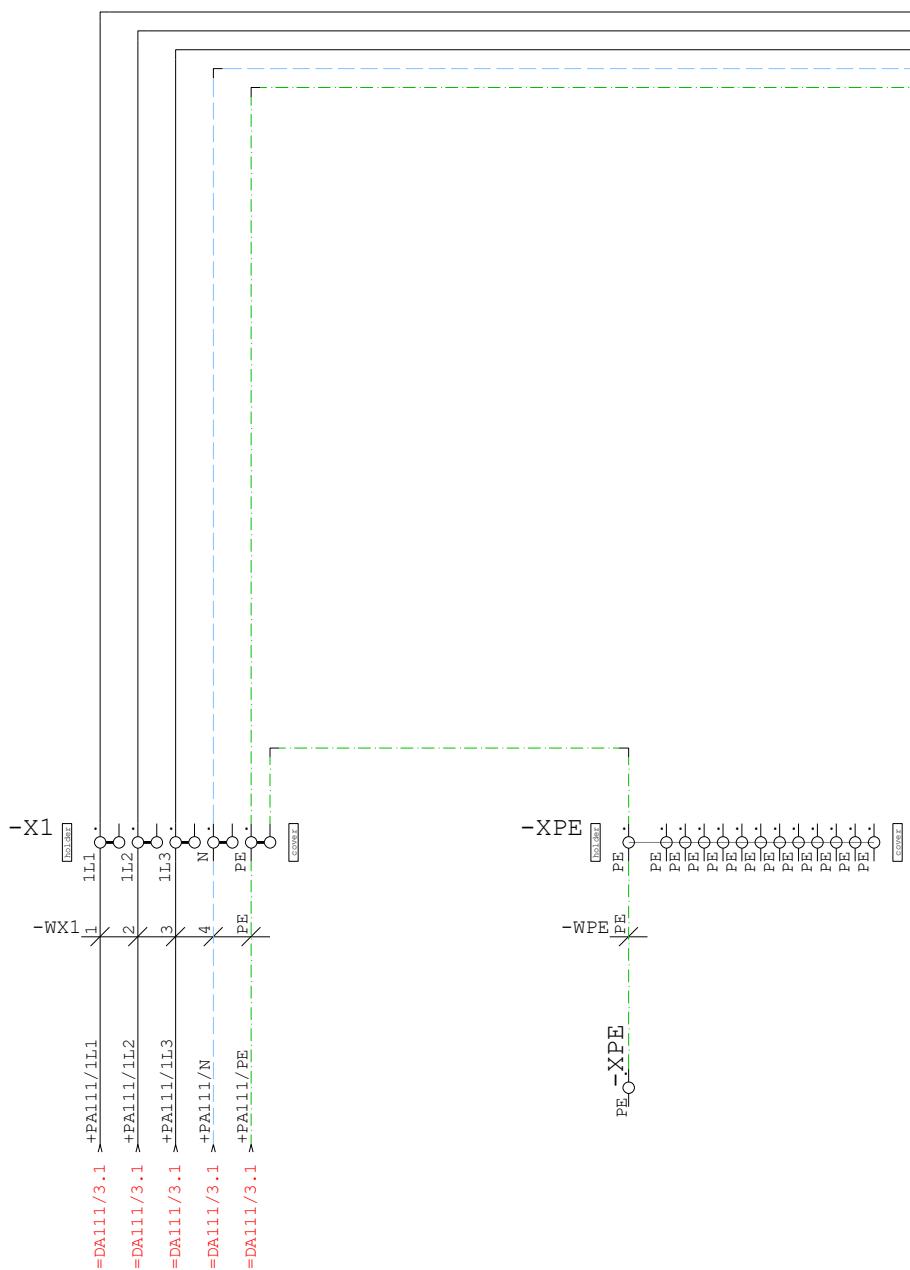
date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	mounting plate - power section PLC - digital inputs E.3598	=DA113
drn by	iA Pohli M				+DA113
check					page: 21
chg.					next page: 30



group general

date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	mounting plate - power section PLC - digital outputs	=DA113
drn by	iA Pohli M				+DA113
check					page: 30
chg.					next page: =PA111+PA111/0

PA111/1L1 /10.0
 PA111/1L2 /10.0
 PA111/1L3 /10.0
 PA111/N /10.0
 PA111/PE /10.0



mounting plate - control unit

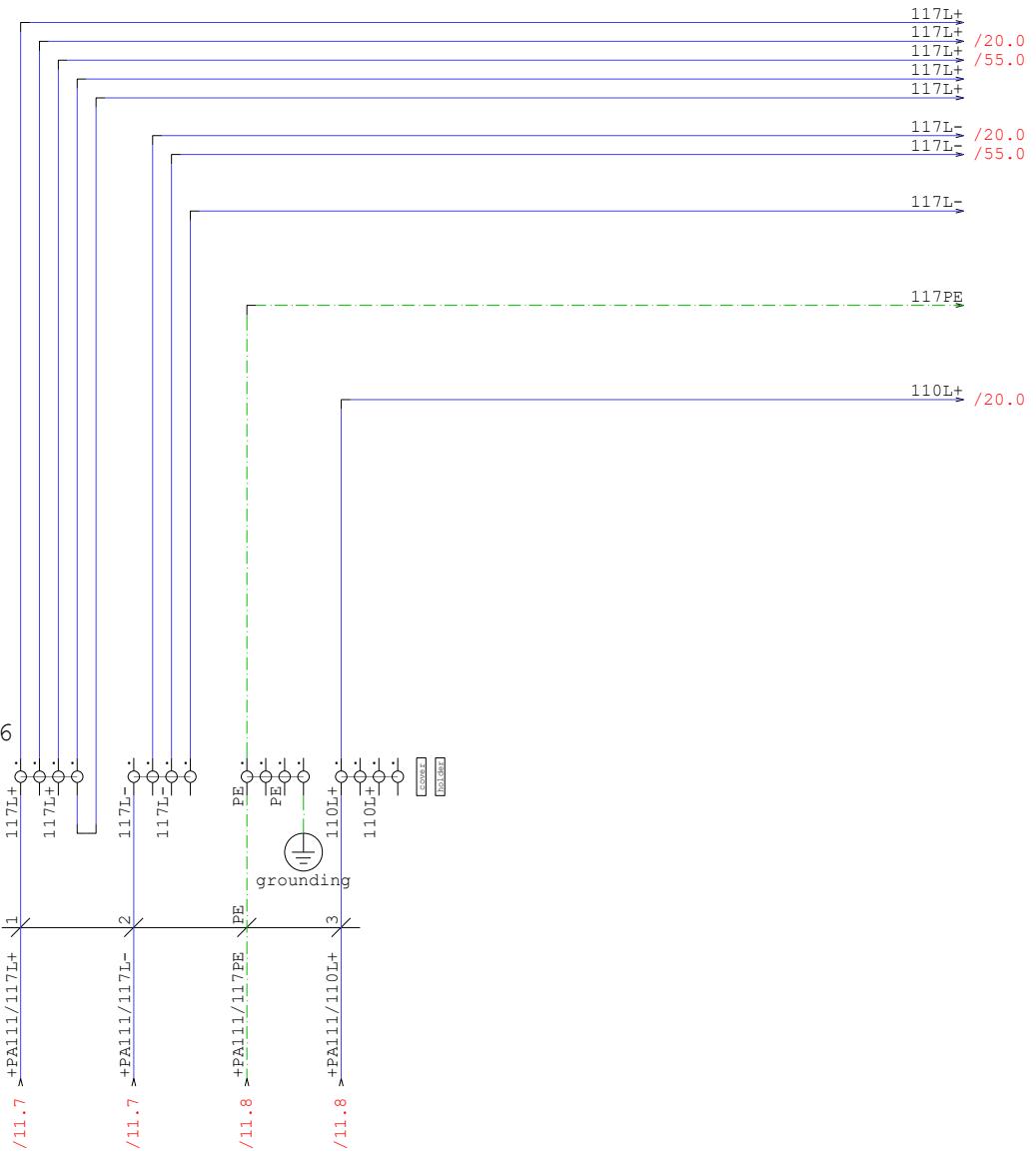
Supply - DC 230/400 V

=PA111

+PA111

page: 0

next page: 1



date 2023-10-27

 BMG FOS
 Route du Quai Minéralier
 13270 Fos-Sur-Mer
 France

KNAUF ENGINEERING
 E.3598

mounting plate - control unit

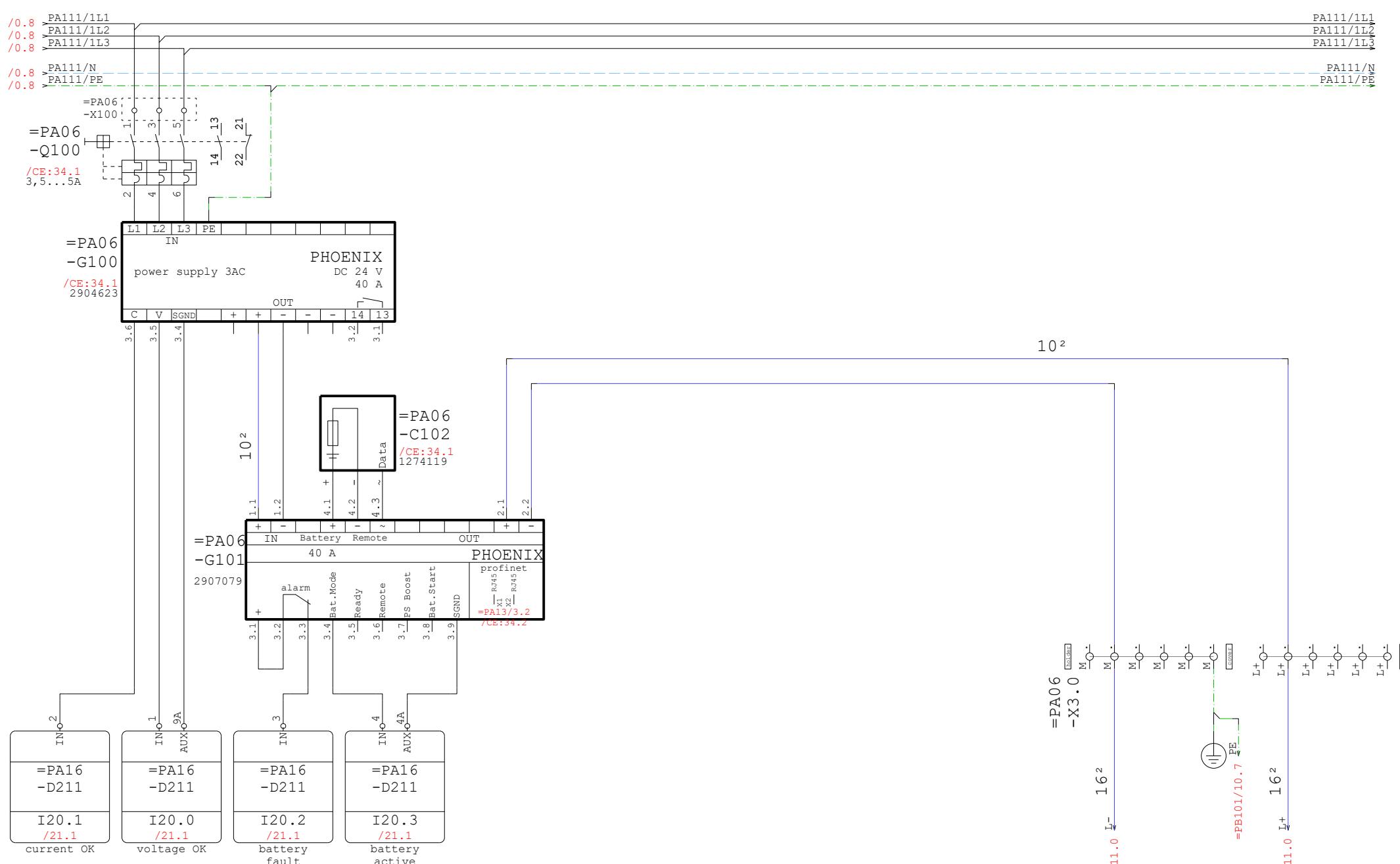
Supply - DC 24 V

=PA111

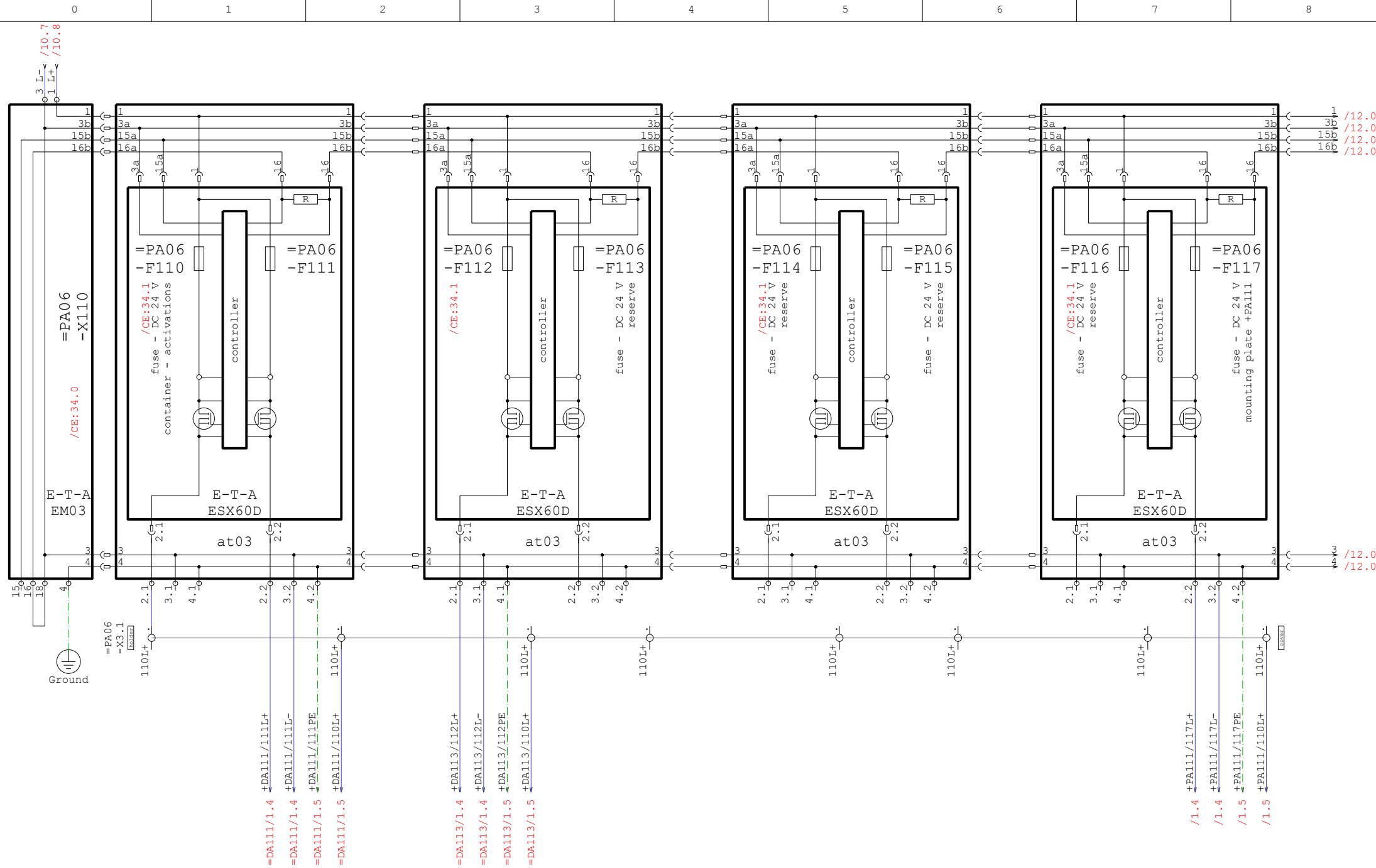
+PA111

page: 1

next page: 10



date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	mounting plate - control unit DC 24 V - Power supply	=PA111
drn by	iA Pohli M				+PA111
check					page: 10
chg.					next page: 11



date	2023-10-27	BMG
drn by	iA Pohli M	Rou
check		132
chg.		Fra

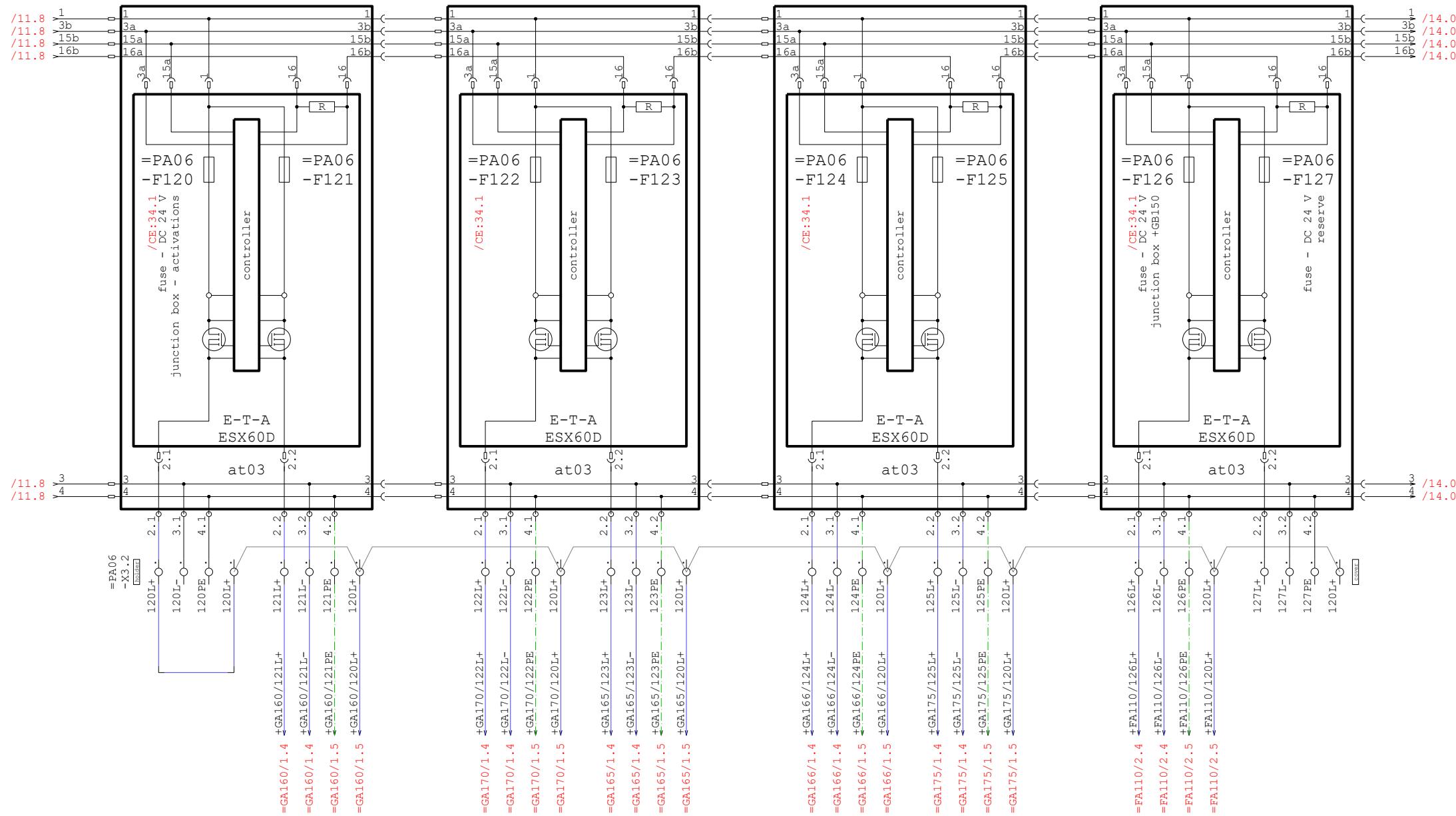
FOS
te du Quai Minéralier
70 Fos-Sur-Mer
nce



mounting plate - control unit

DC 24 V - fuses - mounting plates

```
=PA111  
+PA111  
  
page: 11  
  
next page: 12
```



This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!

date	2023-10-27	BR
drn by	iA Pohli M	Ro
check		13
chg.		FI



mounting plate = control unit

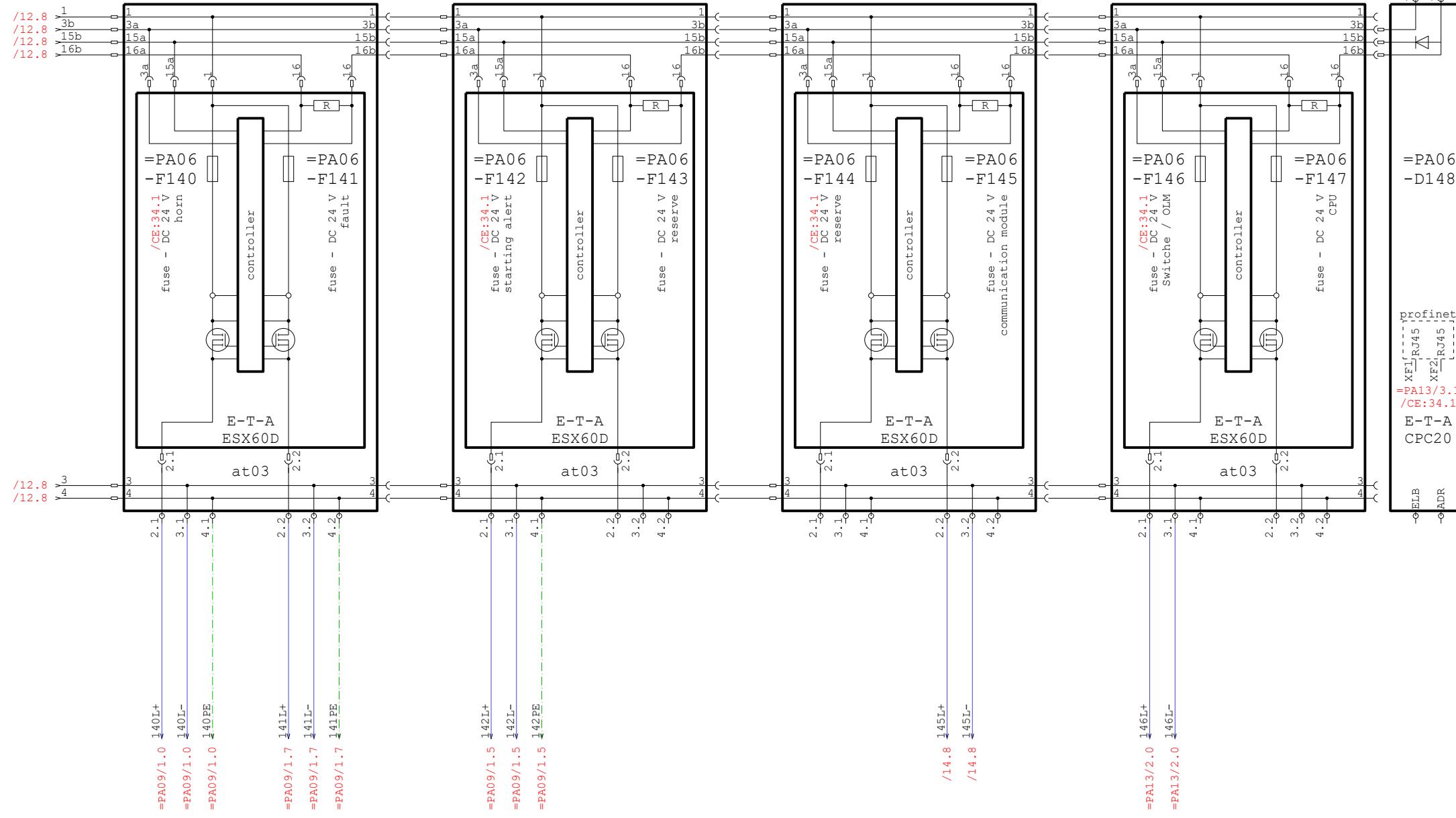
DC 24 V = fuses = junction box

=PA1

+PA111

page: 12

next page: 14



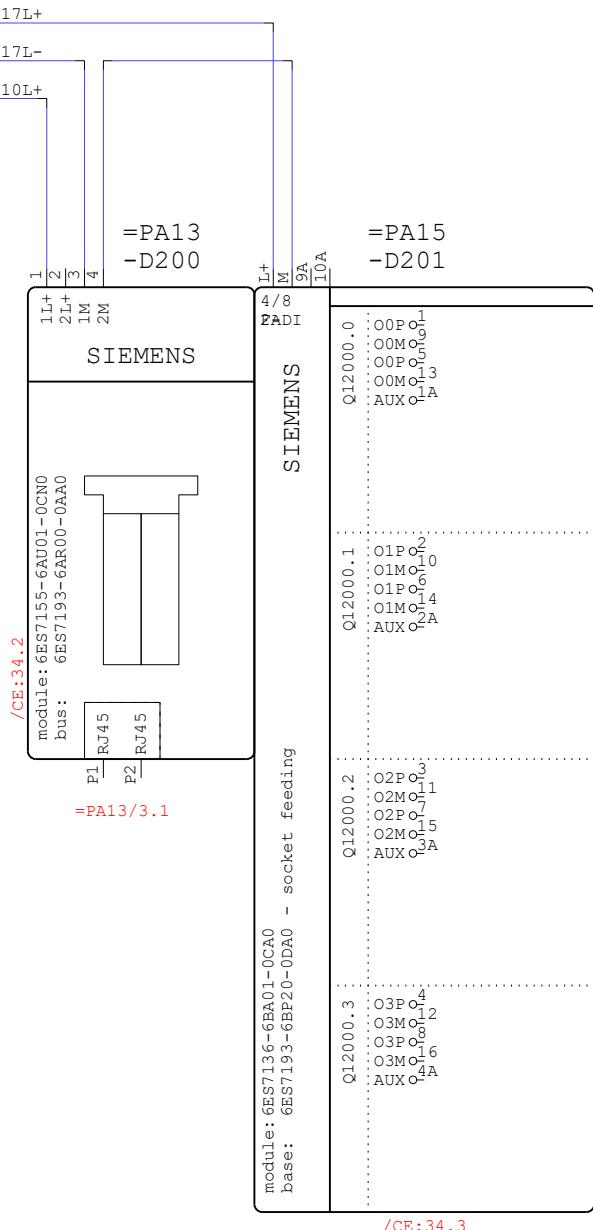
date	2023-10-27	BMG FOS
drn by	iA Pohli M	Route du Quai Minéralier
check		13270 Fos-Sur-Mer
chg.		France

knauf ENGINEERING
E 3508

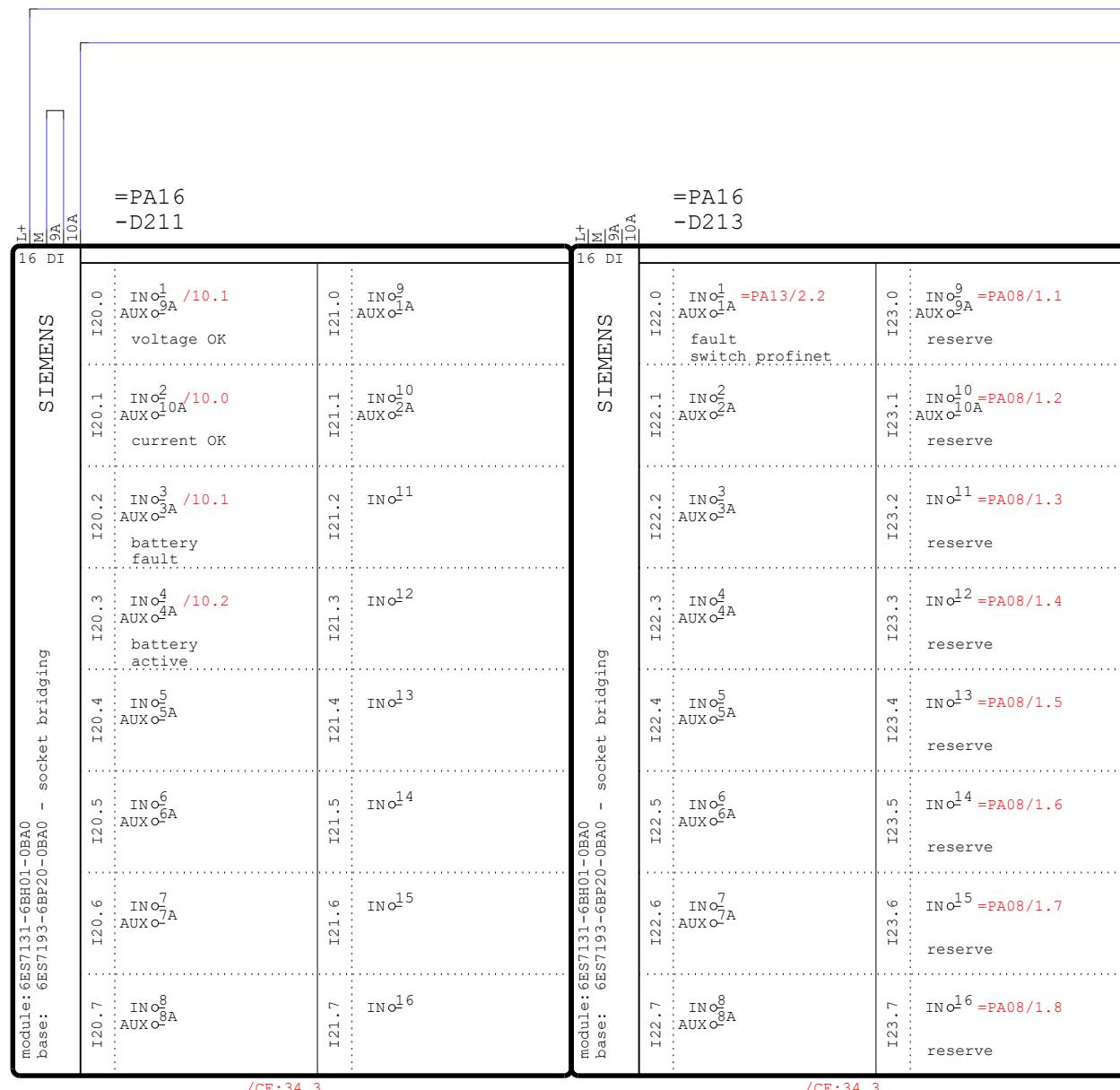
mounting plate - control unit

DC 24 V - fuses - general / CPU

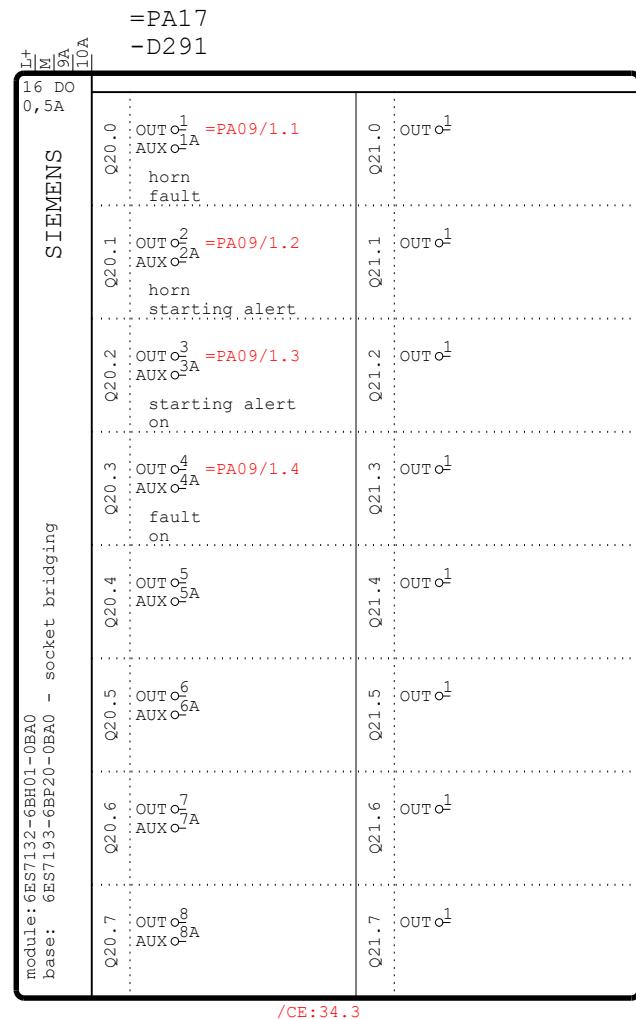
=PA111
+PA111
page: 14
next page: 20



date	2023-10-27	BMG FOS	knauf ENGINEERING	mounting plate - control unit	=PA111
drn by	iA Pohli M	Route du Quai Minéralier			+PA111
check		13270 Fos-Sur-Mer			page: 20
chg.		France			next page: 21



date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	mounting plate - control unit PLC - digital inputs	=PA111
drn by	iA Pohli M				+PA111
check					page: 21
chg.					next page: 29

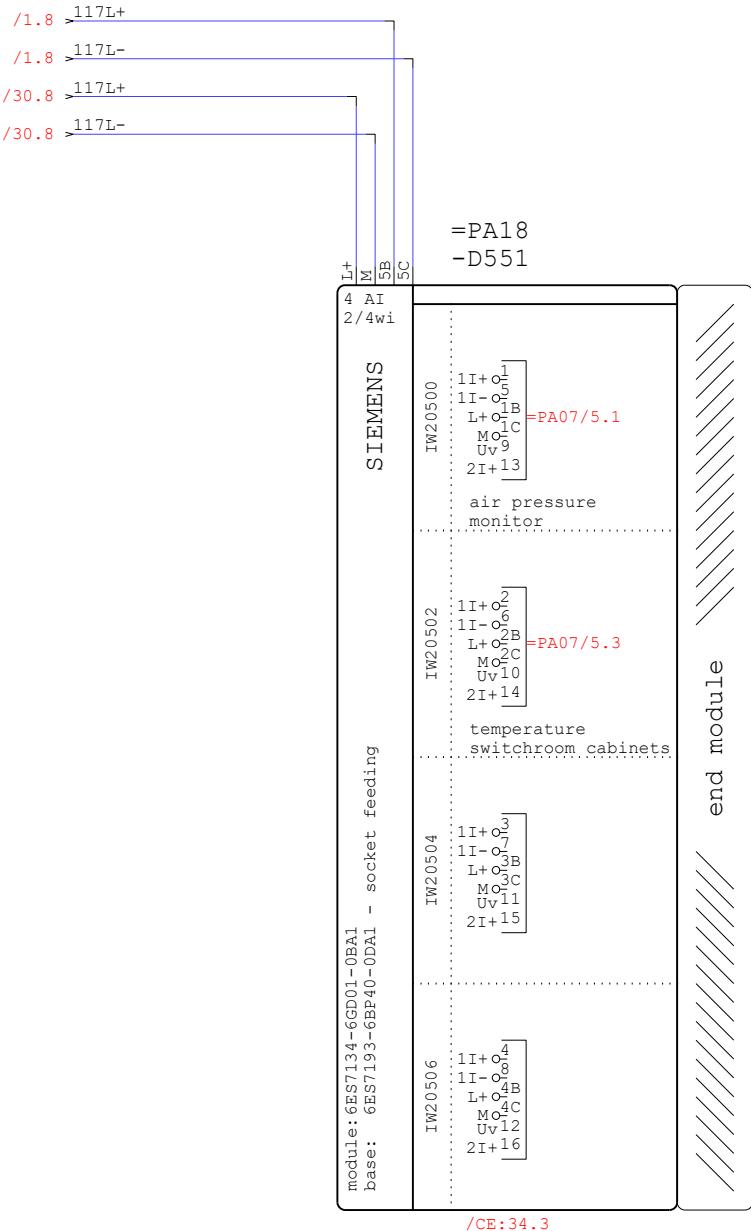


date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	 E.3598	mounting plate - control unit	=PA111
drn by	iA Pohli M			+PA111	
check				PLC - digital outputs (unswitched)	page: 29
chg.					next page: 30

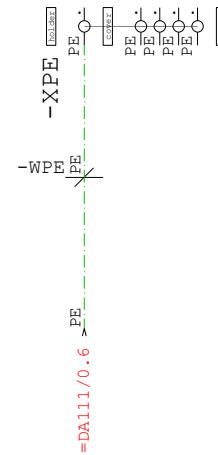
0 1 2 3 4 5 6 7 8



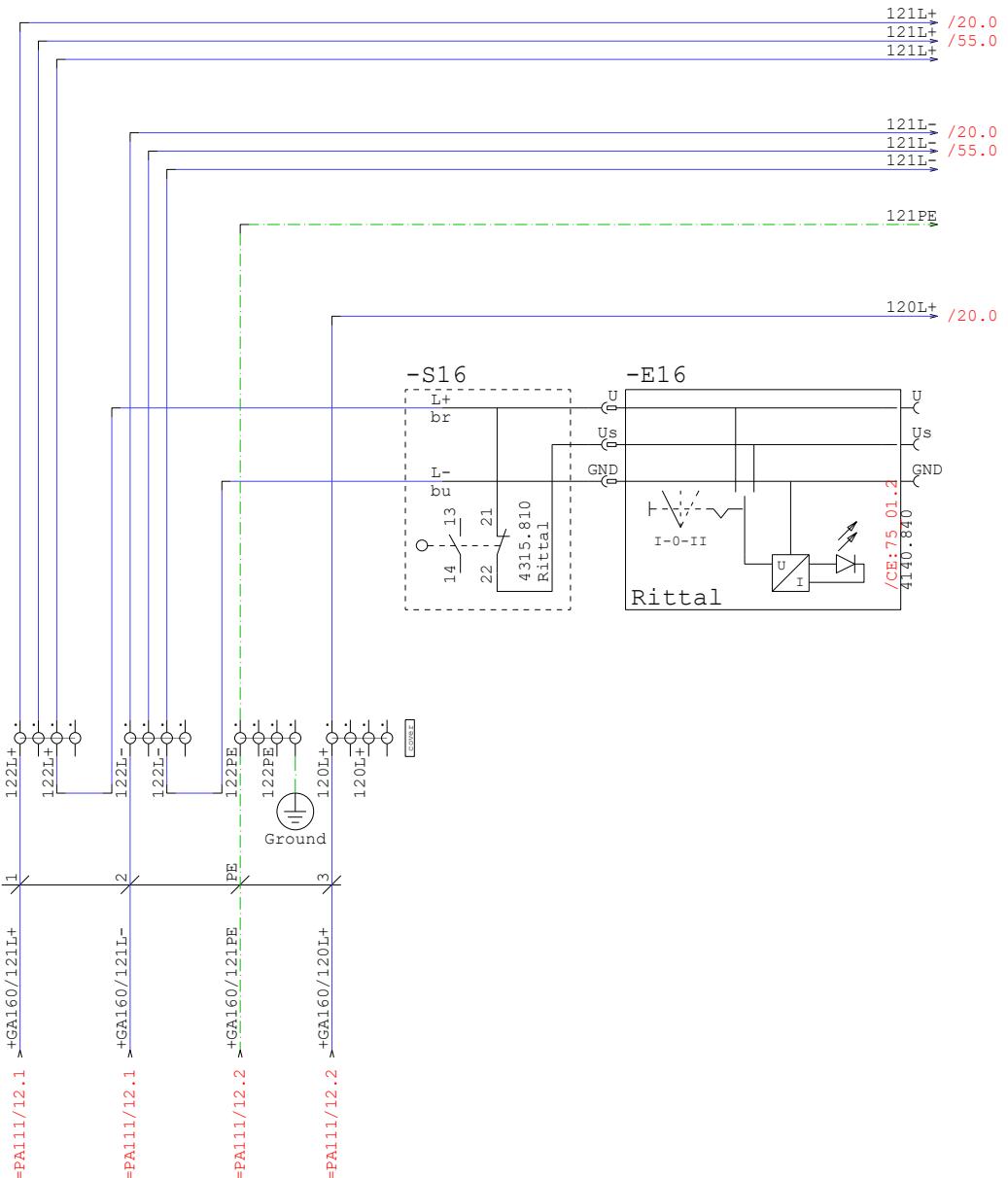
date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	mounting plate - control unit PLC - digital outputs	=PA111
drn by	iA Pohli M				+PA111
check					page: 30
chg.					next page: 55



date	2023-10-27	BMG FOS	knauf ENGINEERING	mounting plate - control unit PLC - analog inputs	=PA111
drn by	iA Pohli M	Route du Quai Minéralier			+PA111
check		13270 Fos-Sur-Mer			page: 55
chg.		France			next page: =GA160+GA160/0



date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	junction box - hopper Supply - AC 230/400 V	=GA160
drn by	iA Pohli M				+GA160
check					page: 0
chg.			E.3598		next page: 1



date 2023-10-27

BMG FOS

drn by iA Pohli M

Route du Quai Minéralier

check

13270 Fos-Sur-Mer

chg.

France

knauf ENGINEERING

E.3598

junction box - hopper

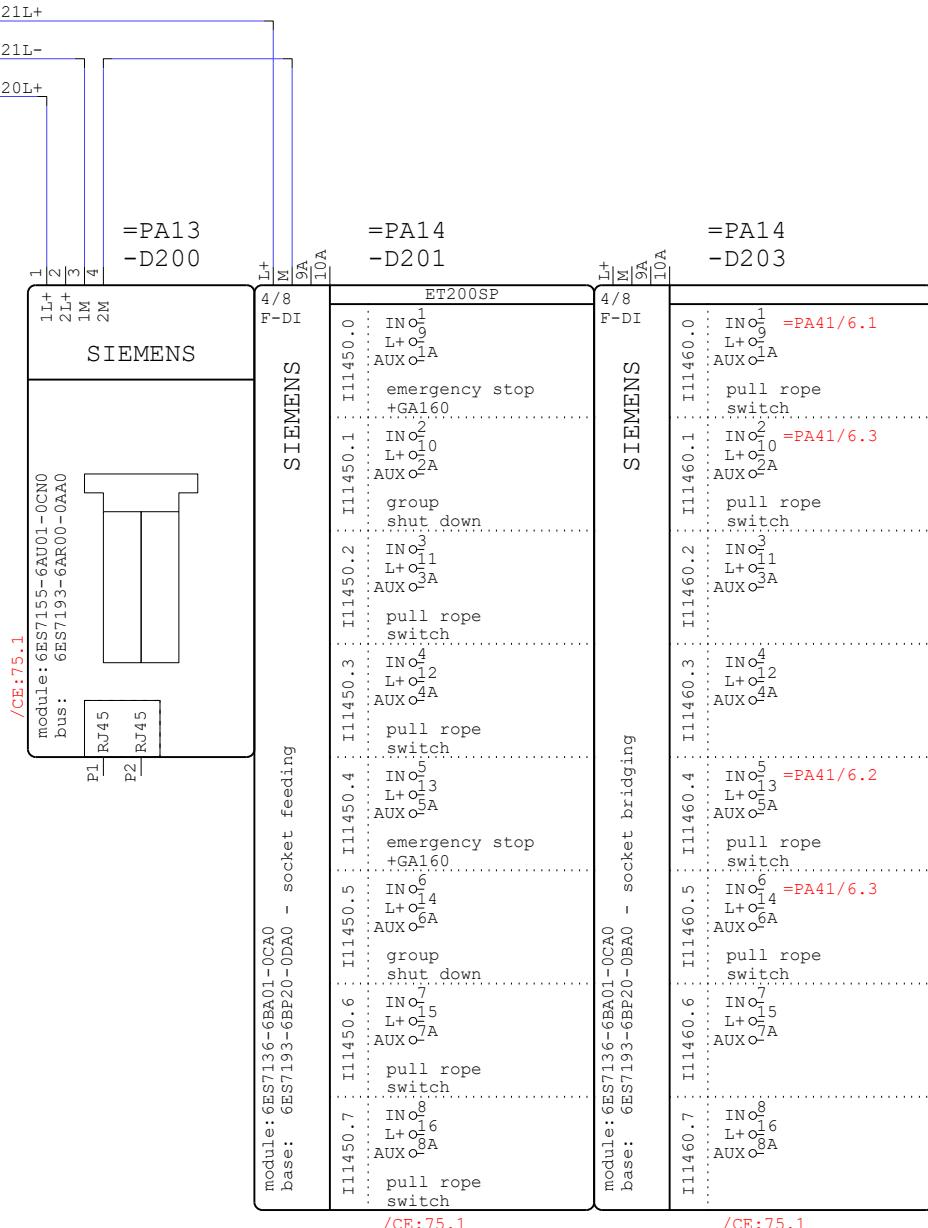
Supply - DC 24 V

=GA160

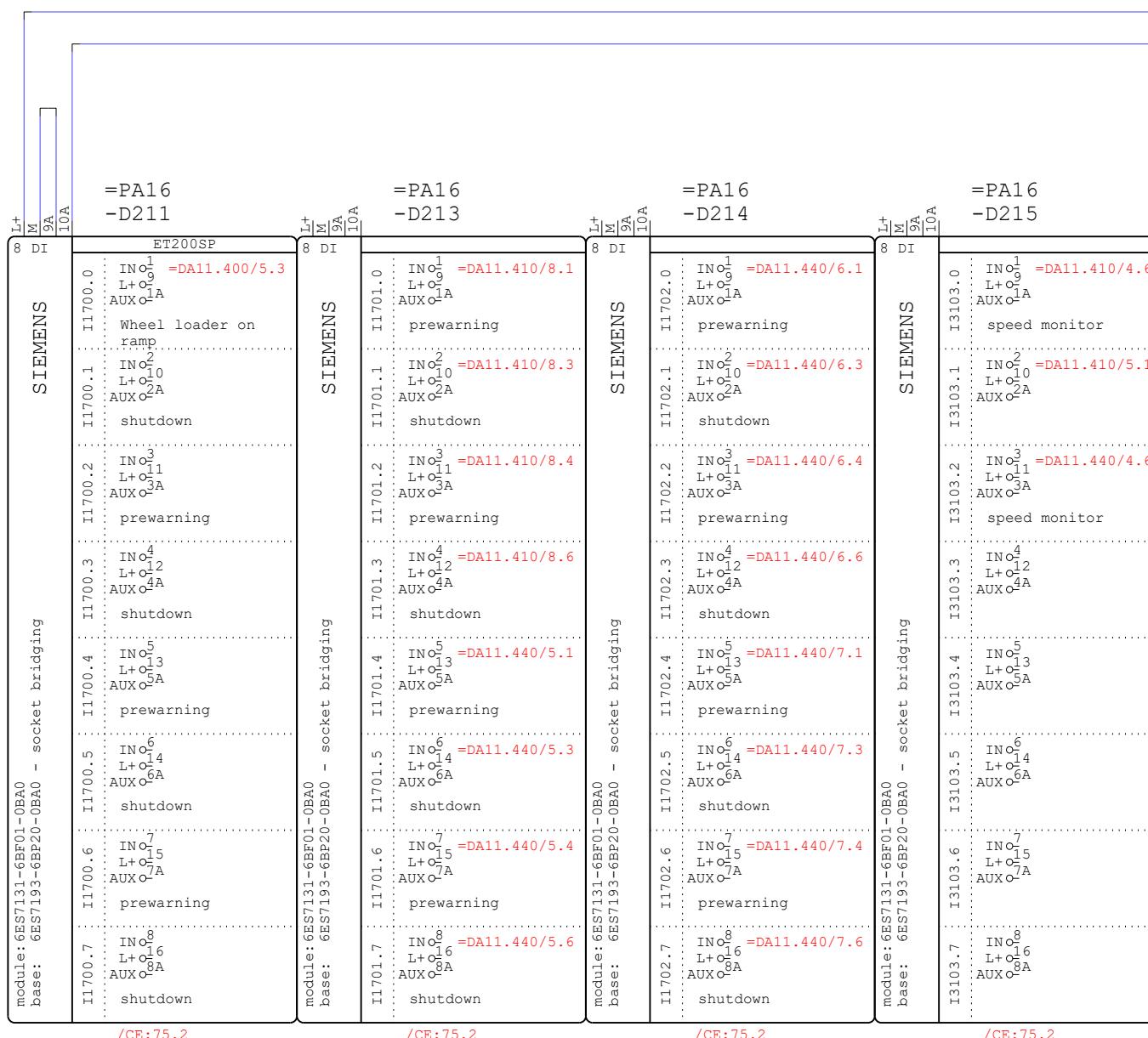
+GA160

page: 1

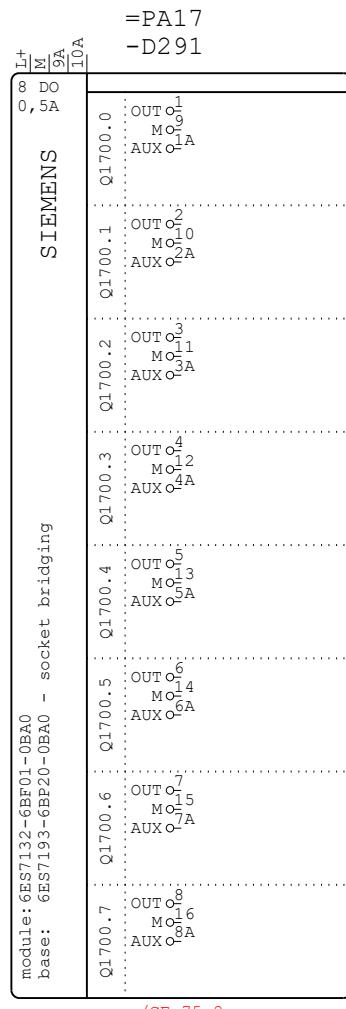
next page: 20



date	2023-11-29	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	junction box - hopper PLC - interface module + safety	=GA160
drn by	iA Pohli M				+GA160
check					page: 20
chg.					next page: 21



date	2023-11-22	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	junction box - hopper PLC - digital inputs E.3598	=GA160
drn by	iA Pohli M				+GA160
check					page: 21
chg.					next page: 29



date 2023-10-27

BMG FOS

drn by iA Pohli M

Route du Quai Minéralier

check 13270 Fos-Sur-Mer

France



E.3598

junction box - hopper

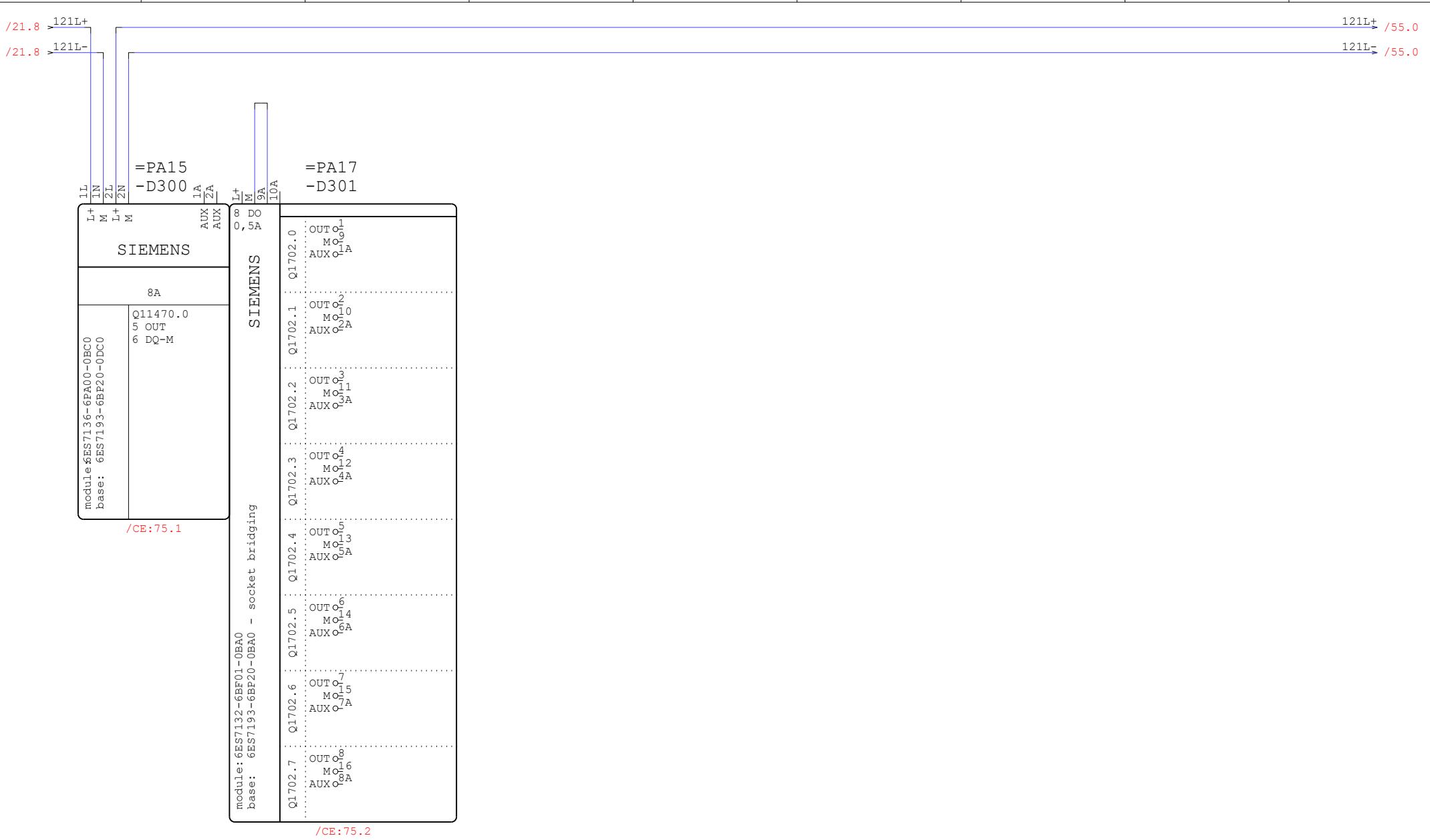
PLC - digital outputs (unswitched)

=GA160

+GA160

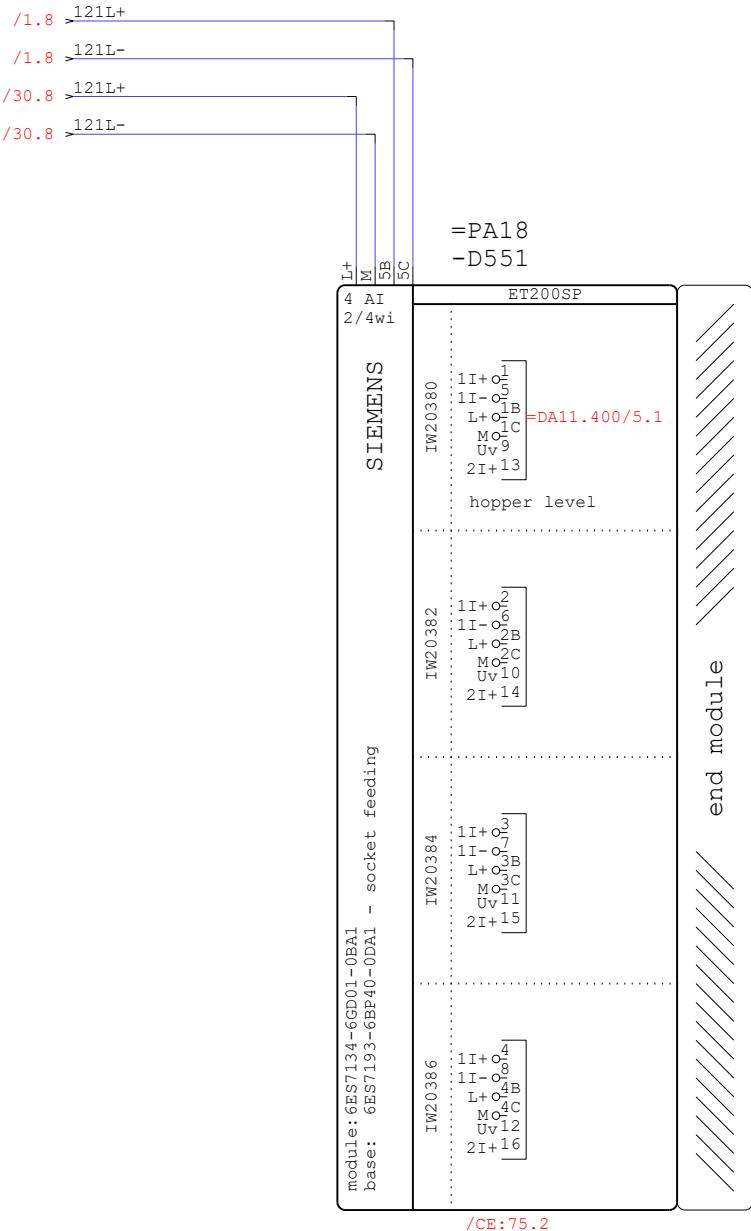
page: 29

next page: 30

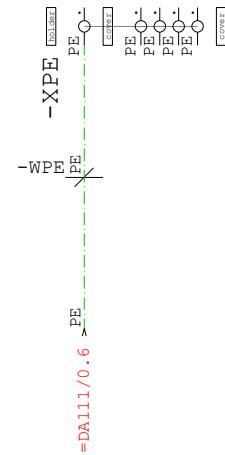


group general

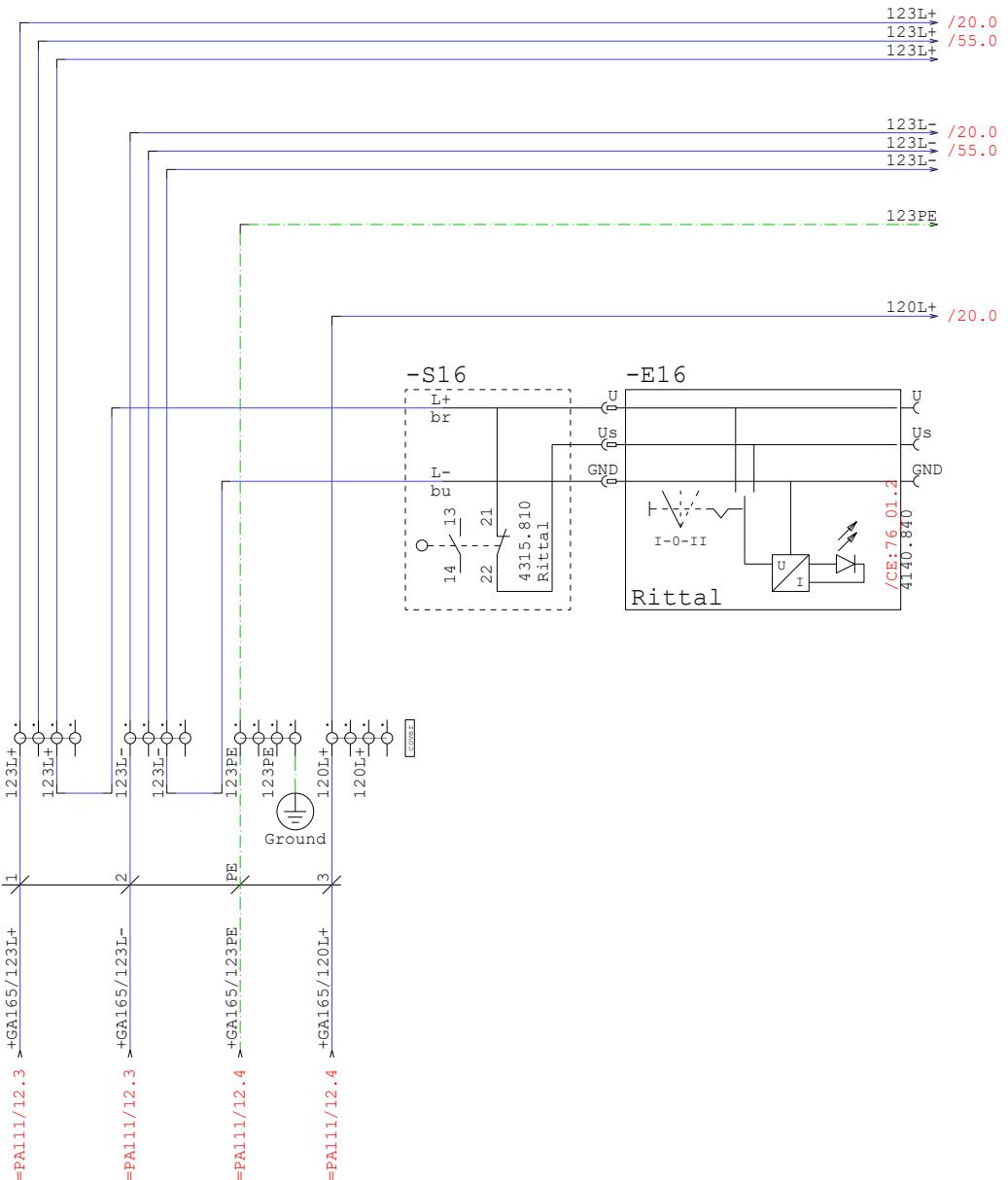
date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	junction box - hopper PLC - digital outputs	=GA160
drn by	iA Pohli M				+GA160
check					page: 30
chg.					next page: 55



date	2023-11-22	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	junction box - hopper PLC - analog inputs E.3598	=GA160
drn by	iA Pohli M				+GA160
check					page: 55
chg.					next page: =GA165+GA165/0



date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	KNAUF ENGINEERING	junction box - filter - hopper Supply - AC 230/400 V	=GA165
drn by	iA Pohli M				+GA165
check					page: 0
chg.			E.3598		next page: 1



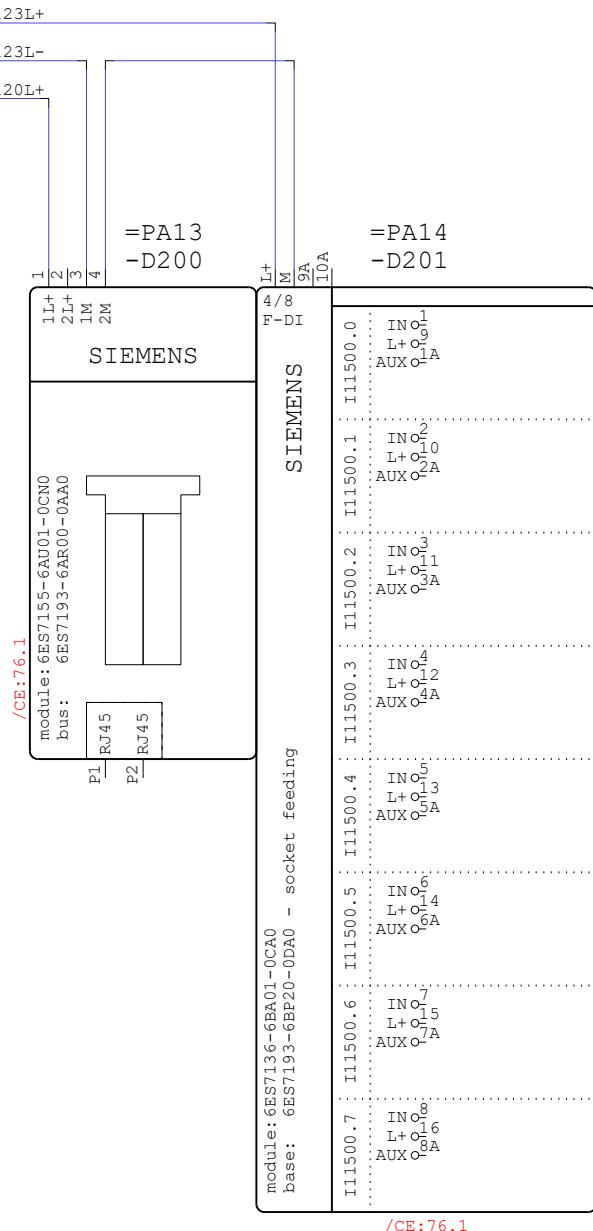
date 2023-10-27

BMG FOS
Route du Quai Minéralier
13270 Fos-Sur-Mer
France**knauf** ENGINEERING

junction box - filter - hopper

Supply - DC 24 V

=GA165
+GA165
page: 1
next page: 20

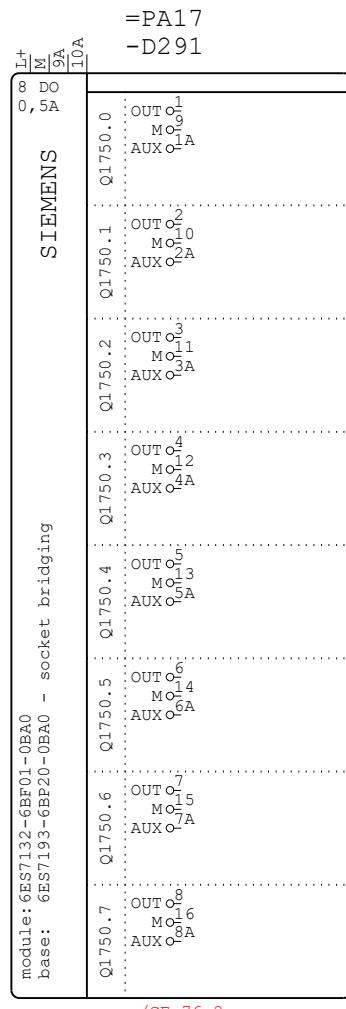


/CE:76.1

date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	junction box - filter - hopper PLC - interface module + safety	=GA165
drn by	iA Pohli M				+GA165
check					page: 20
chg.					next page: 21



date	2023-10-27	BMG FOS		junction box - filter - hopper PLC - digital inputs	=GA165
drn by	iA Pohli M	Route du Quai Minéralier			+GA165
check		13270 Fos-Sur-Mer			page: 21
chg.		France			next page: 29



date 2023-10-27

BMG FOS
Route du Quai Minéralier
13270 Fos-Sur-Mer
France

E.3598

junction box - filter - hopper

PLC - digital outputs (unswitched)

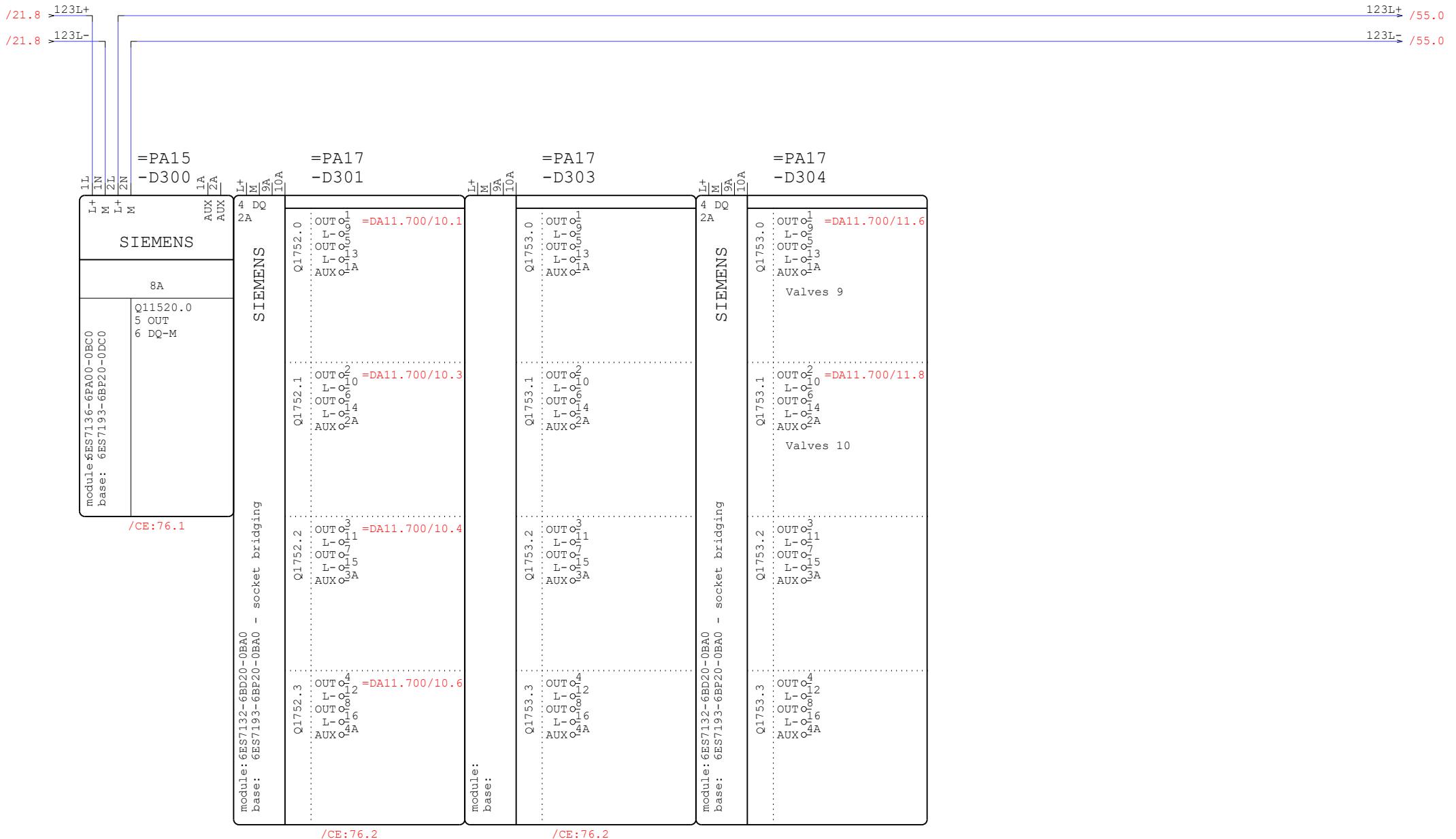
=GA165

+GA165

page: 29

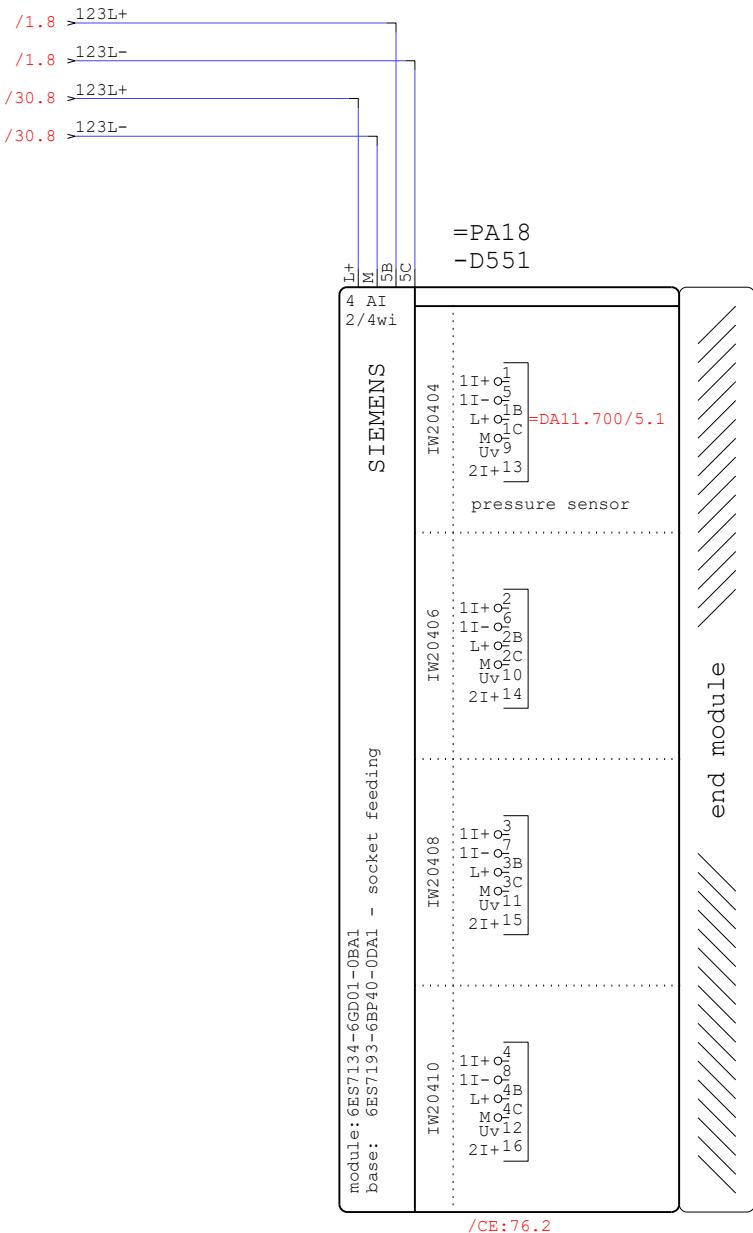
next page: 30

0 1 2 3 4 5 6 7 8

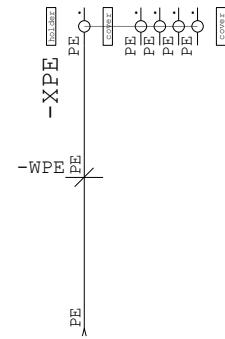


group general

date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	junction box - filter - hopper PLC - digital outputs	=GA165
drn by	iA Pohli M				+GA165
check					page: 30
chg.					next page: 55

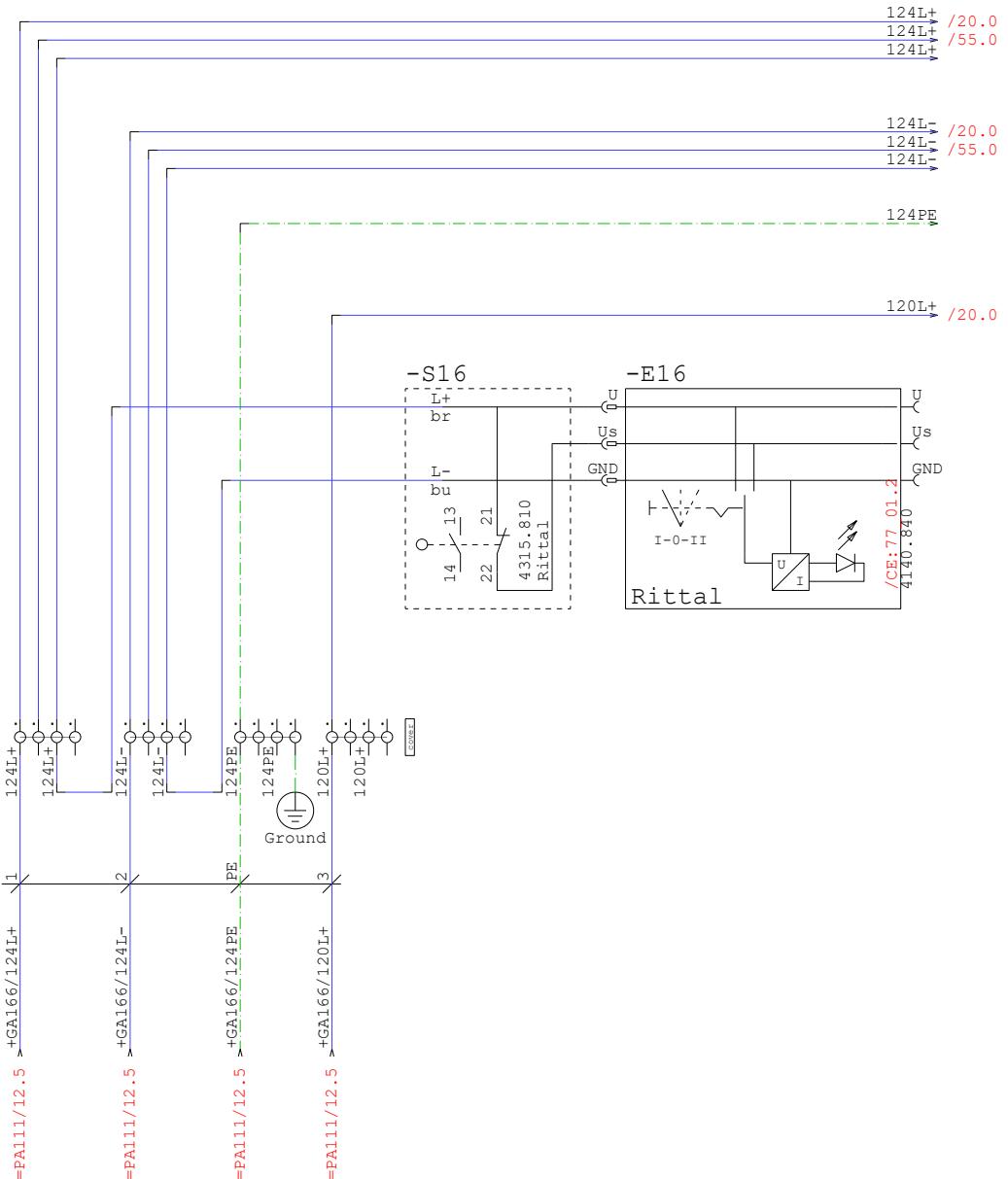


date	2023-10-27	BMG FOS	knauf ENGINEERING	junction box - filter - hopper PLC - analog inputs	=GA165
drn by	iA Pohli M	Route du Quai Minéralier			+GA165
check		13270 Fos-Sur-Mer			page: 55
chg.		France			next page: =GA166+GA166/0



date	2023-10-27	BMG FOS	KNAUF ENGINEERING E.3598	junction box - crusher Supply - AC 230/400 V	=GA166
drn by	iA Pohli M	Route du Quai Minéralier			+GA166
check		13270 Fos-Sur-Mer			page: 0
chg.		France			next page: 1

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!



date 2023-10-27

BMG FOS

drn by iA Pohli M

Route du Quai Minéralier

check

13270 Fos-Sur-Mer

chg.

France

knauf ENGINEERING
 E.3598

junction box - crusher

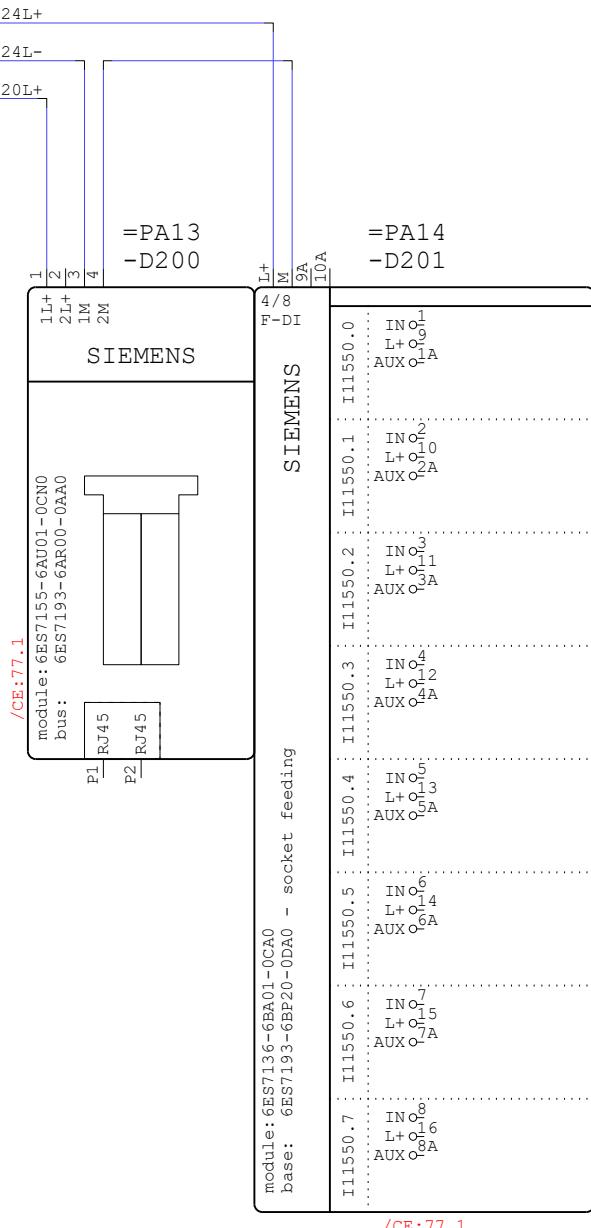
Supply - DC 24 V

=GA166

+GA166

page: 1

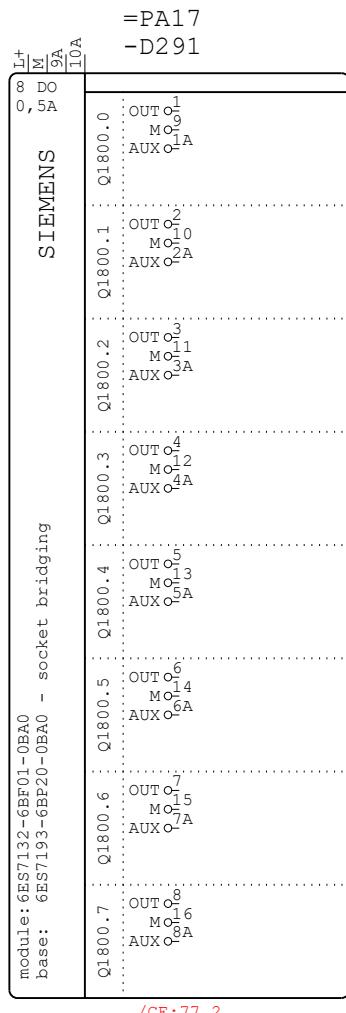
next page: 20



date	2023-10-27	BMG FOS	KNAUF ENGINEERING junction box - crusher PLC - interface module + safety E.3598	=GA166
drn by	iA Pohli M	Route du Quai Minéralier 13270 Fos-Sur-Mer France		+GA166
check				page: 20
chg.				next page: 21



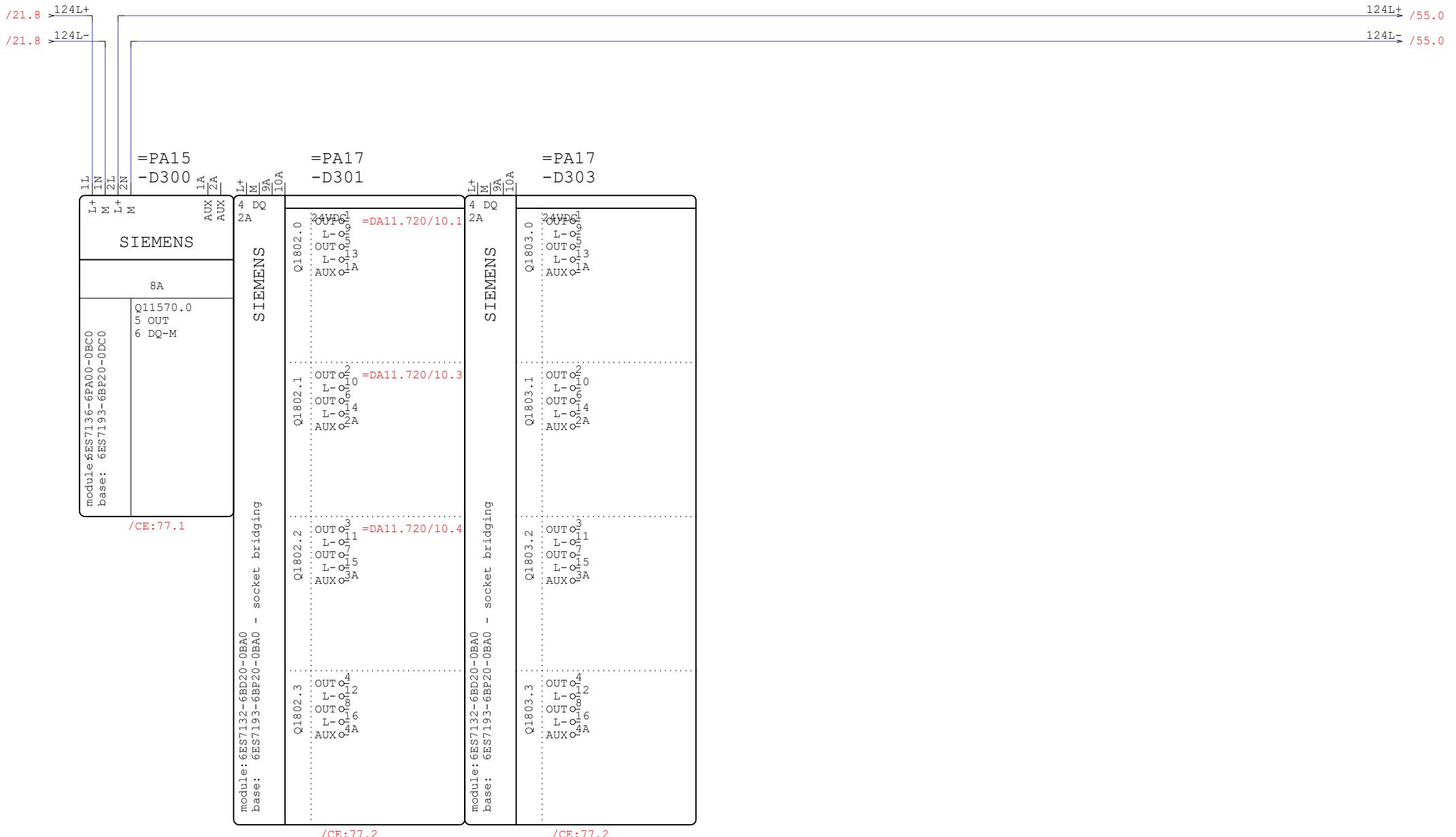
date	2023-10-27	BMG FOS	knauf ENGINEERING	junction box - crusher PLC - digital inputs	=GA166
drn by	iA Pohli M	Route du Quai Minéralier			+GA166
check		13270 Fos-Sur-Mer			page: 21
chg.		France			next page: 29



/CE:77.2

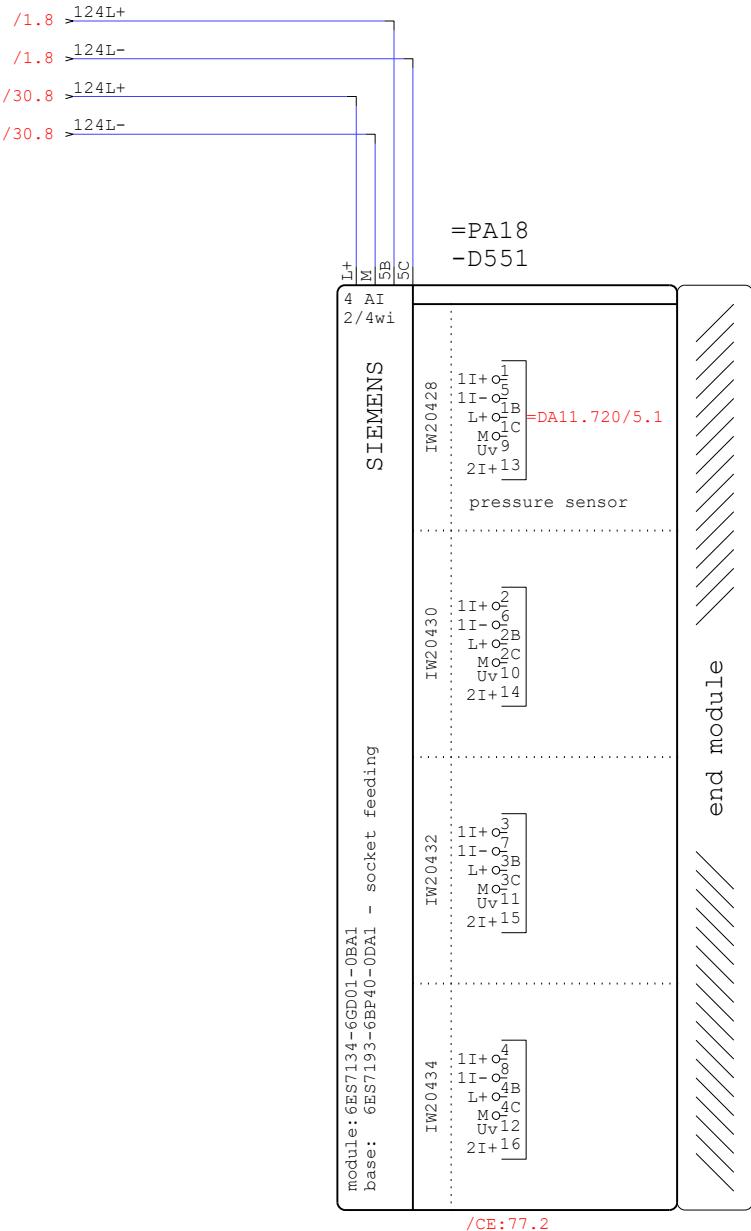
date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France		junction box - crusher	=GA166
drn by	iA Pohli M				+GA166
check				PLC - digital outputs (unswitched)	page: 29
chg.				E.3598	next page: 30

0 1 2 3 4 5 6 7 8

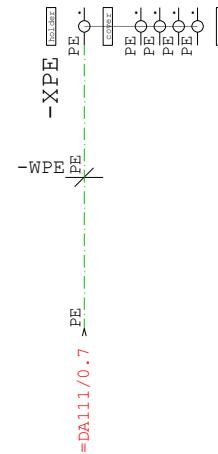


group general

date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	junction box - crusher PLC - digital outputs	=GA166
drn by	iA Pohli M				+GA166
check					page: 30
chg.					next page: 55



date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	junction box - crusher PLC - analog inputs	=GA166 +GA166 page: 55 next page: =GA170+GA170/0
------	------------	--	--------------------------	---	---



junction box - transport

Supply - AC 230/400 V

=GA170

+GA170

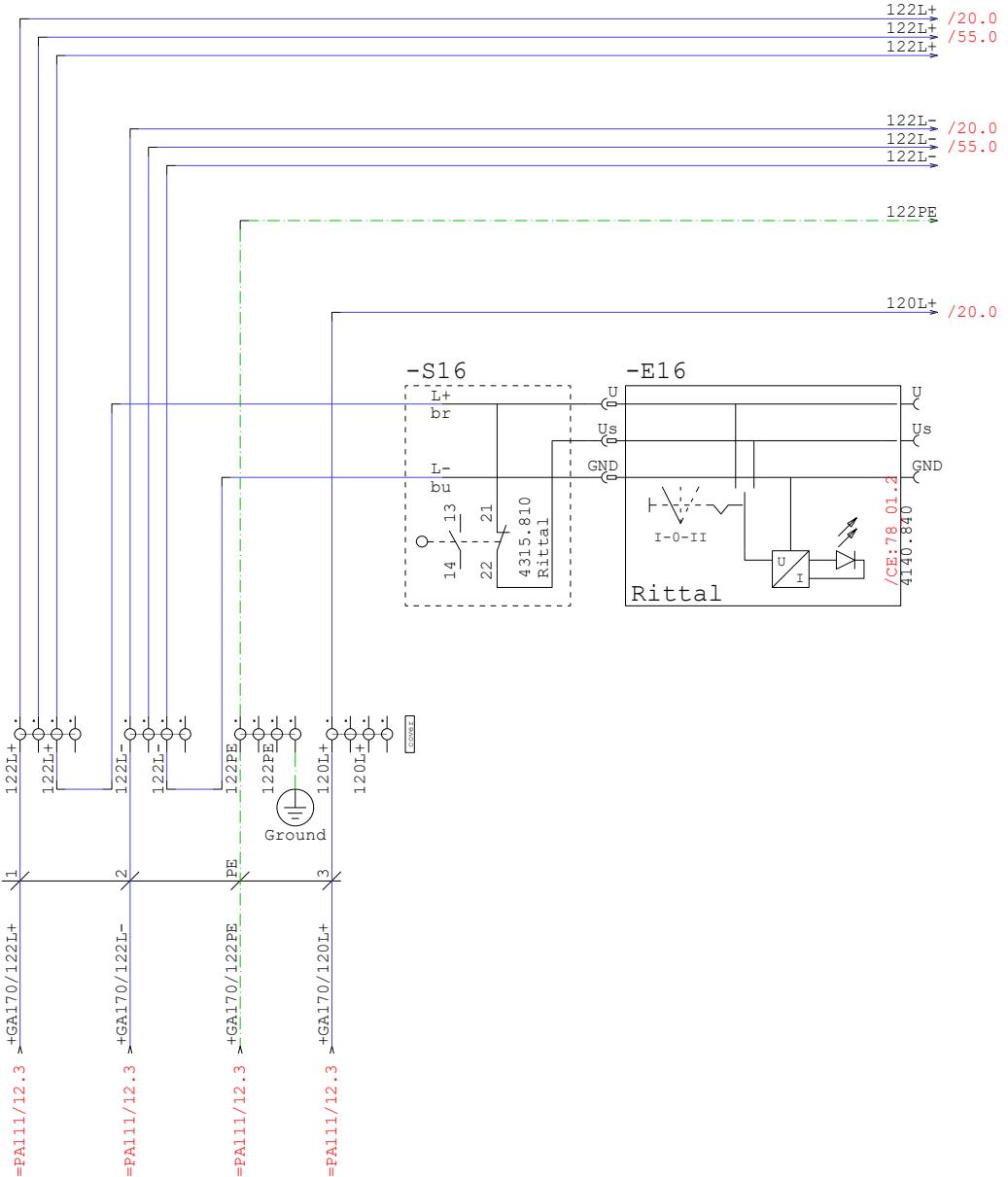
page: 0

next page: 1

date 2023-10-27

BMG FOS
Route du Quai Minéralier
13270 Fos-Sur-Mer
France**knauf** ENGINEERING

E.3598



date 2023-10-27

BMG FOS

drn by iA Pohli M

Route du Quai Minéralier

check

13270 Fos-Sur-Mer

chg.

France

knauf ENGINEERING

E.3598

junction box - transport

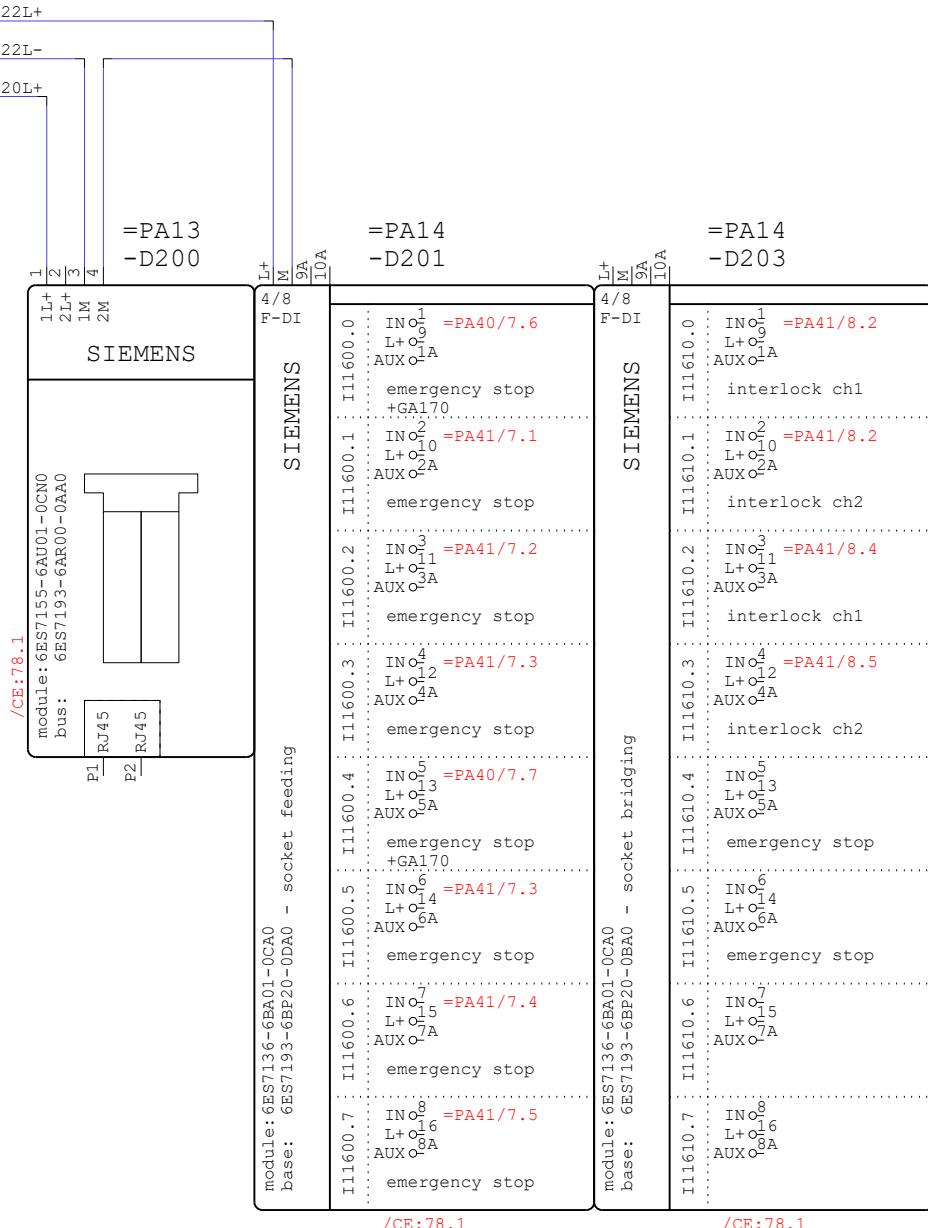
Supply - DC 24 V

=GA170

+GA170

page: 1

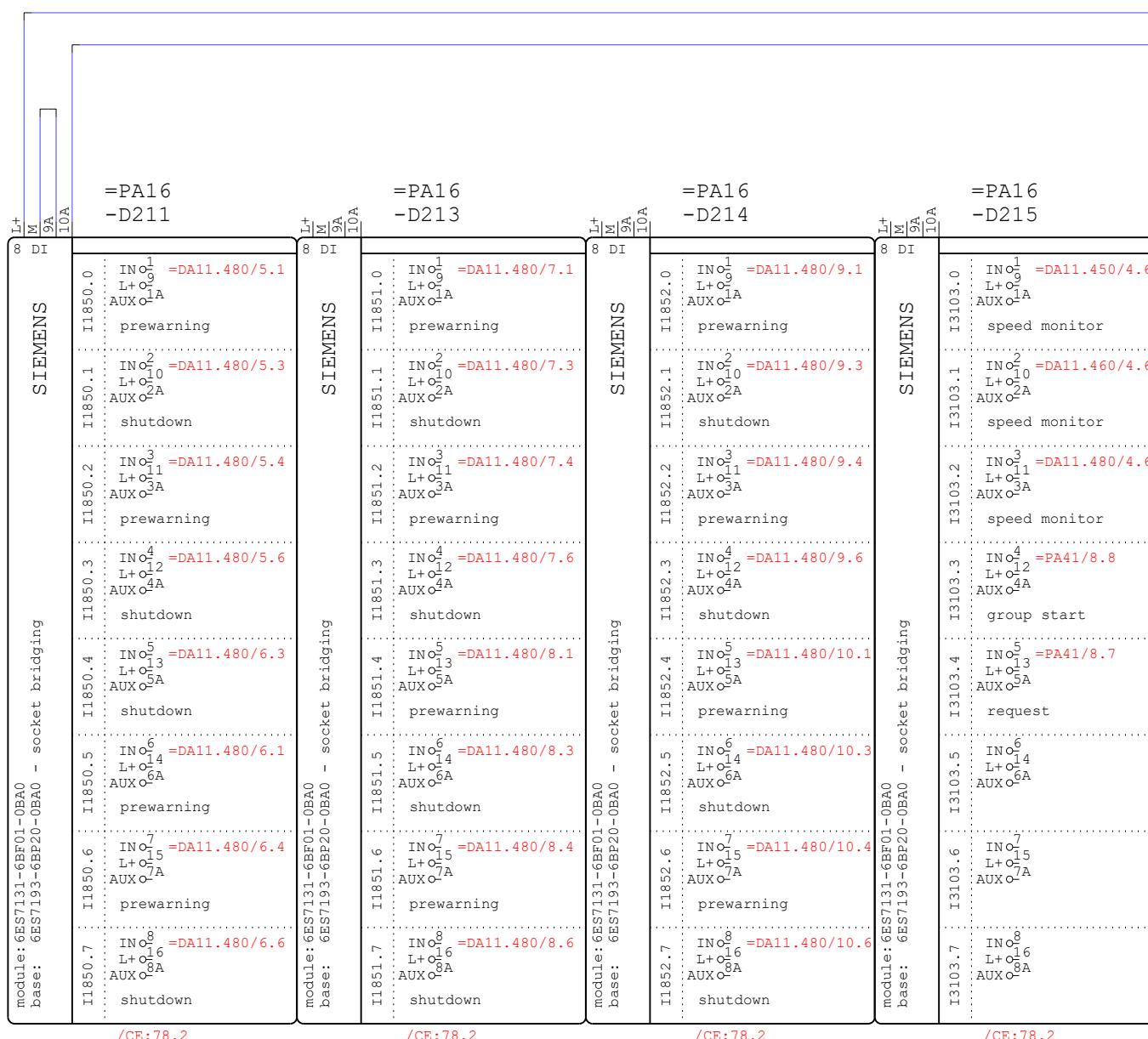
next page: 20



/CE:78.1

/CE:78.1

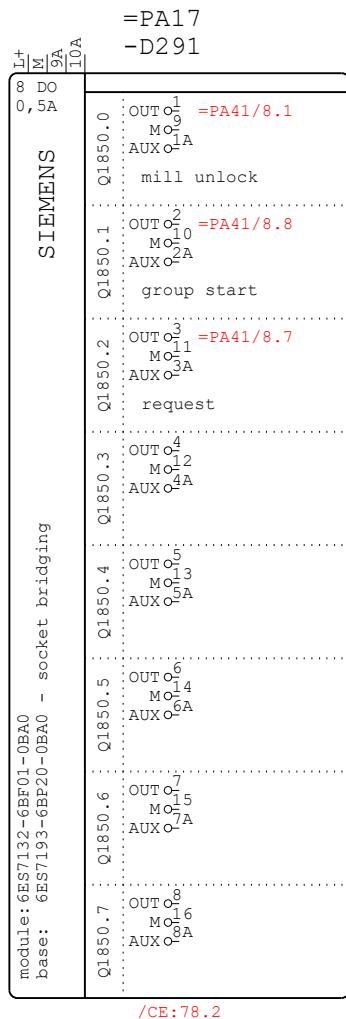
date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	junction box - transport PLC - interface module + safety	=GA170
drn by	iA Pohli M				+GA170
check					page: 20
chg.					next page: 21



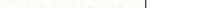
122L+ /30.0

122L- /30.0

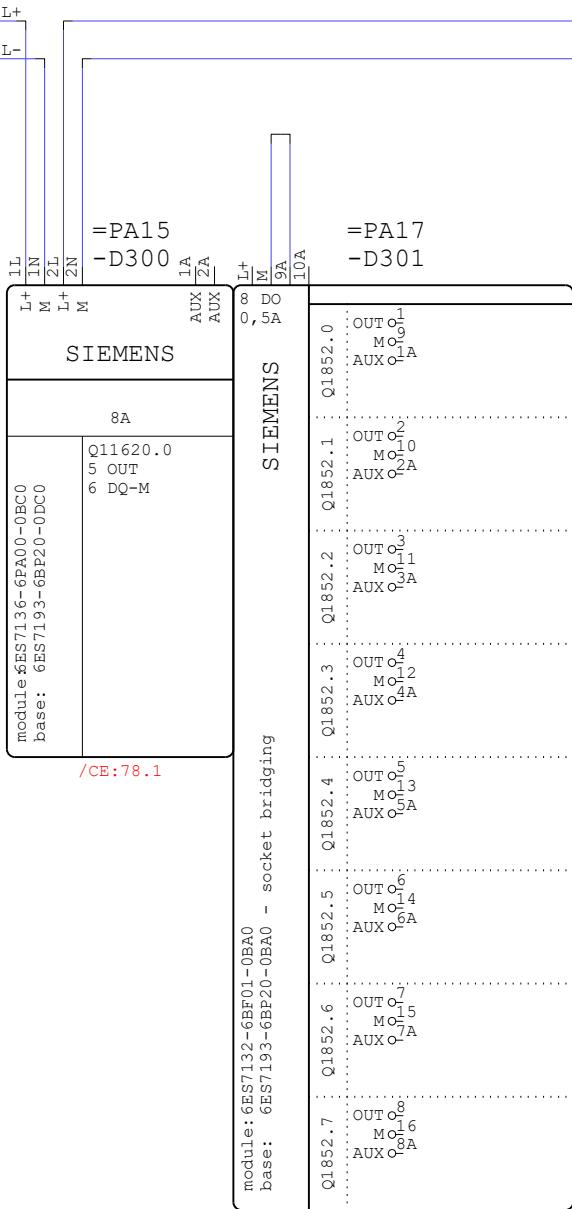
date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	junction box - transport PLC - digital inputs E.3598	=GA170
drn by	iA Pohli M				+GA170
check					page: 21
chg.					next page: 29



/CE:78.2

date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France		junction box - transport	=GA170
drn by	iA Pohli M				+GA170
check				PLC - digital outputs (unswitched)	page: 29
chg.				E.3598	next page: 30

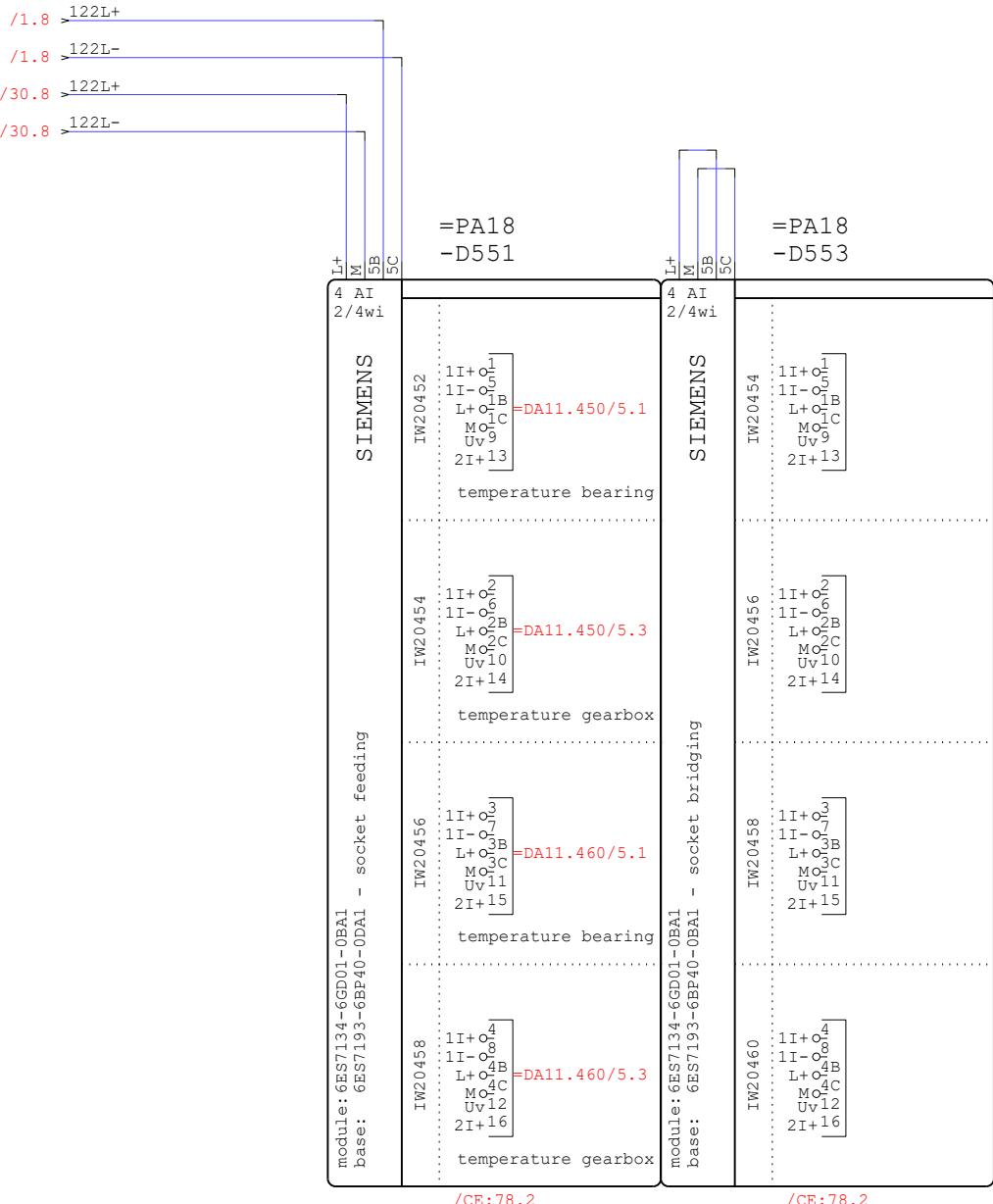
0 1 2 3 4 5 6 7 8



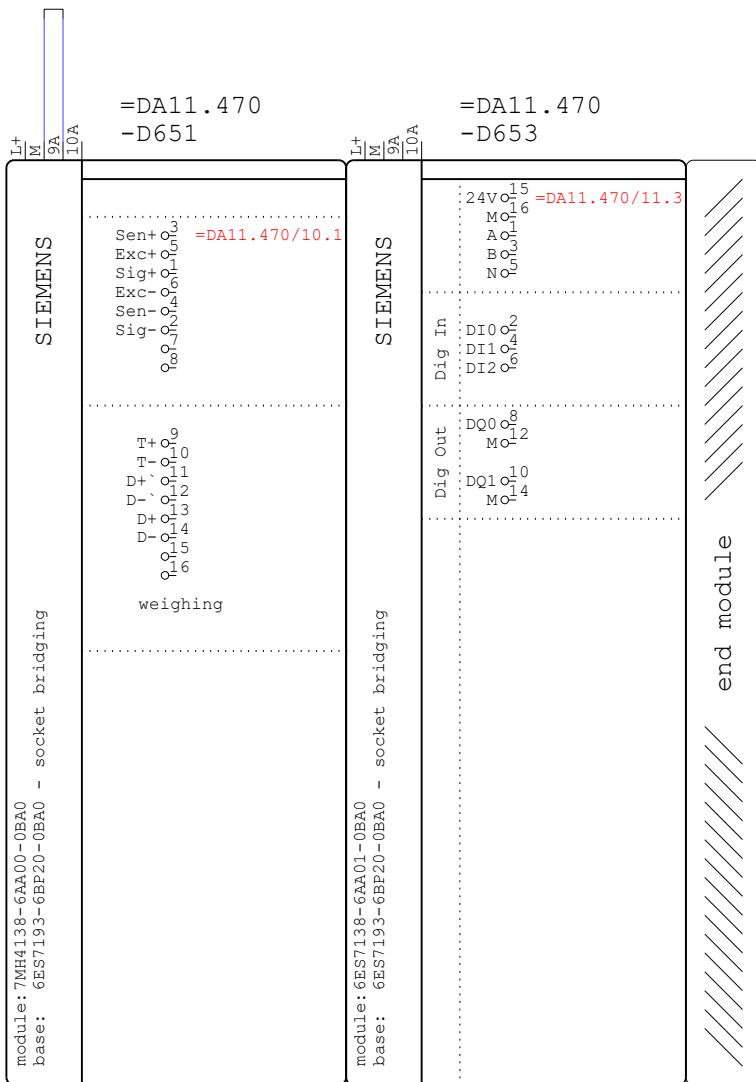
group general

date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	junction box - transport PLC - digital outputs	=GA170
drn by	iA Pohli M				+GA170
check					page: 30
chg.					next page: 55

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!



date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	junction box - transport PLC - analog inputs	=GA170
drn by	iA Pohli M				+GA170
check					page: 55
chg.					next page: 65



date 2023-10-27

BMG FOS

drn by iA Pohli M

Route du Quai Minéralier

check 13270 Fos-Sur-Mer

chg. France



junction box - transport

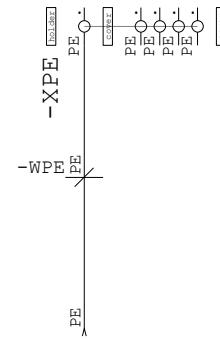
PLC - technology modules

=GA170

+GA170

page: 65

next page: =GA175+GA175/0



junction box - (description)

Supply - AC 230/400 V

=GA175

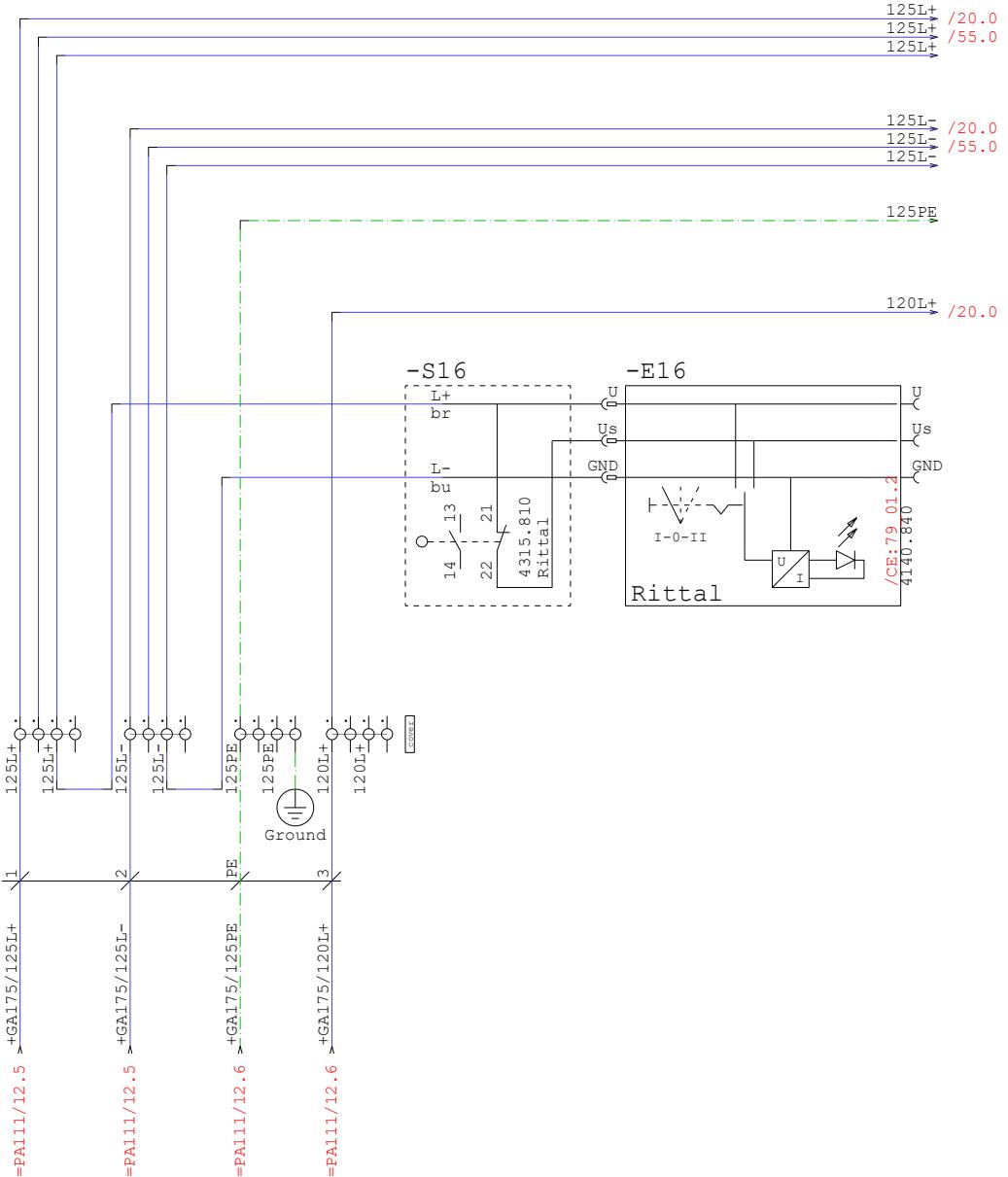
+GA175

page: 0

next page: 1

date 2023-10-27

BMG FOS
Route du Quai Minéralier
13270 Fos-Sur-Mer
France**knauf** ENGINEERING
E.3598



date 2023-10-27

BMG FOS

drn by iA Pohli M

Route du Quai Minéralier

check

13270 Fos-Sur-Mer

chg.

France

knauf **ENGINEERING**

E.3598

junction box - (description)

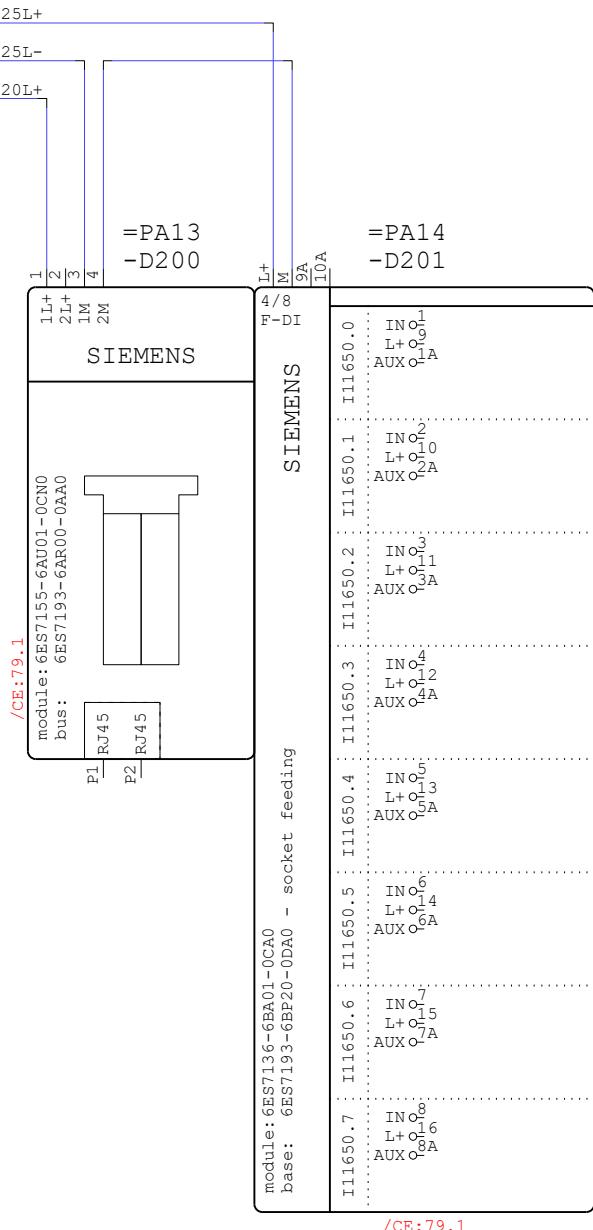
Supply - DC 24 V

=GA175

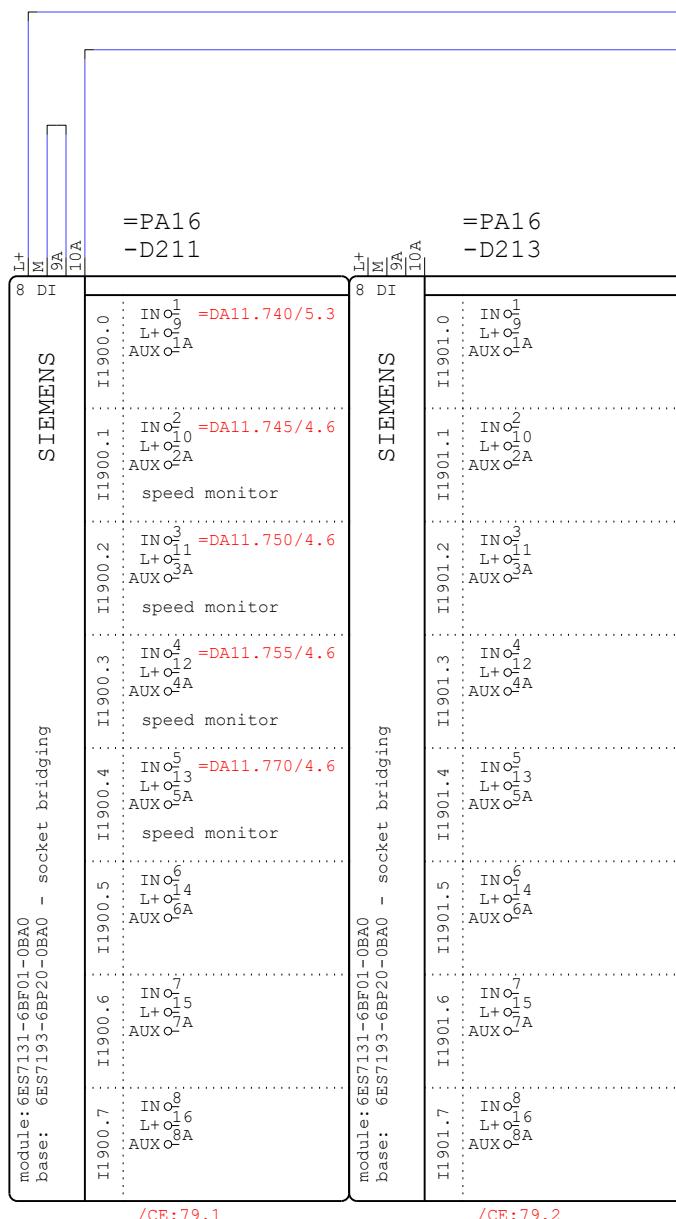
+GA175

page: 1

next page: 20



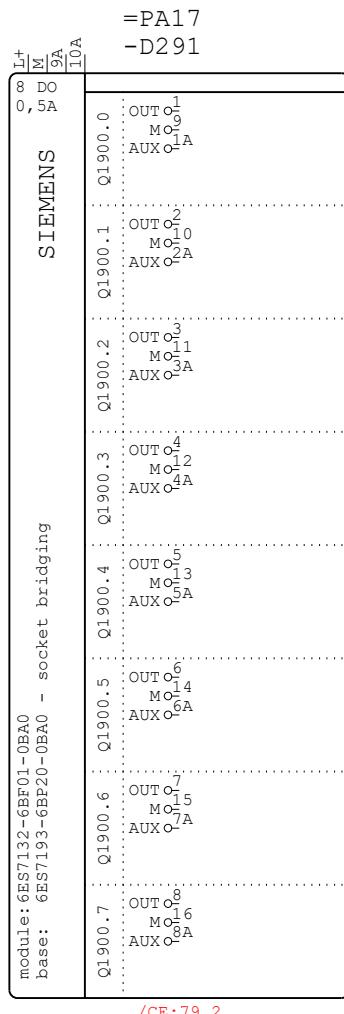
date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	junction box - (description) PLC - interface module + safety	=GA175
drn by	iA Pohli M				+GA175
check					page: 20
chg.					next page: 21



125L+ /30.0

125L- /30.0

date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	junction box - (description) PLC - digital inputs	=GA175
drn by	iA Pohli M				+GA175
check					page: 21
chg.					next page: 29



date 2023-10-27

BMG FOS

drn by iA Pohli M

Route du Quai Minéralier

check 13270 Fos-Sur-Mer

chg. France



E.3598

junction box - (description)

PLC - digital outputs (unswitched)

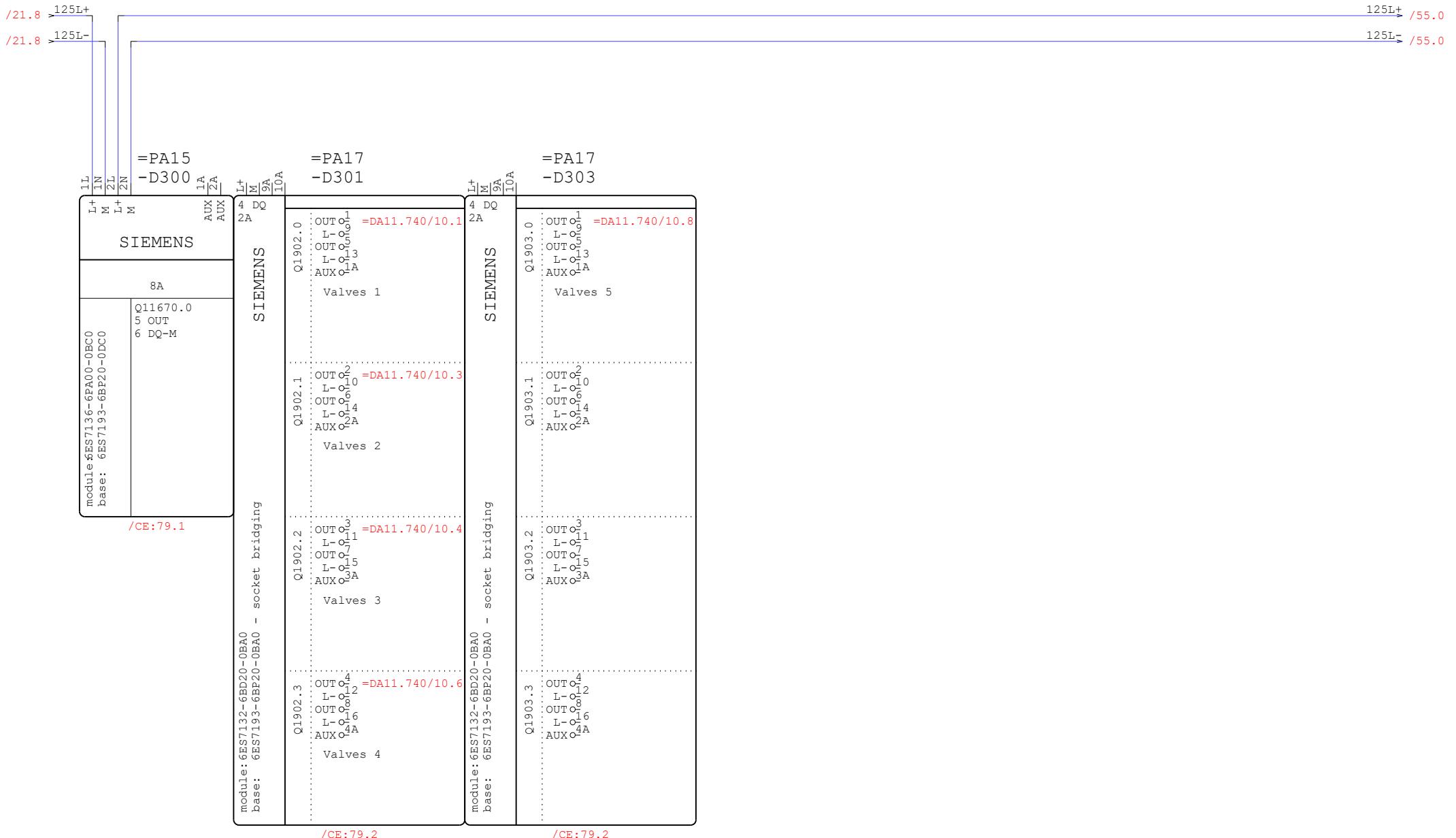
=GA175

+GA175

page: 29

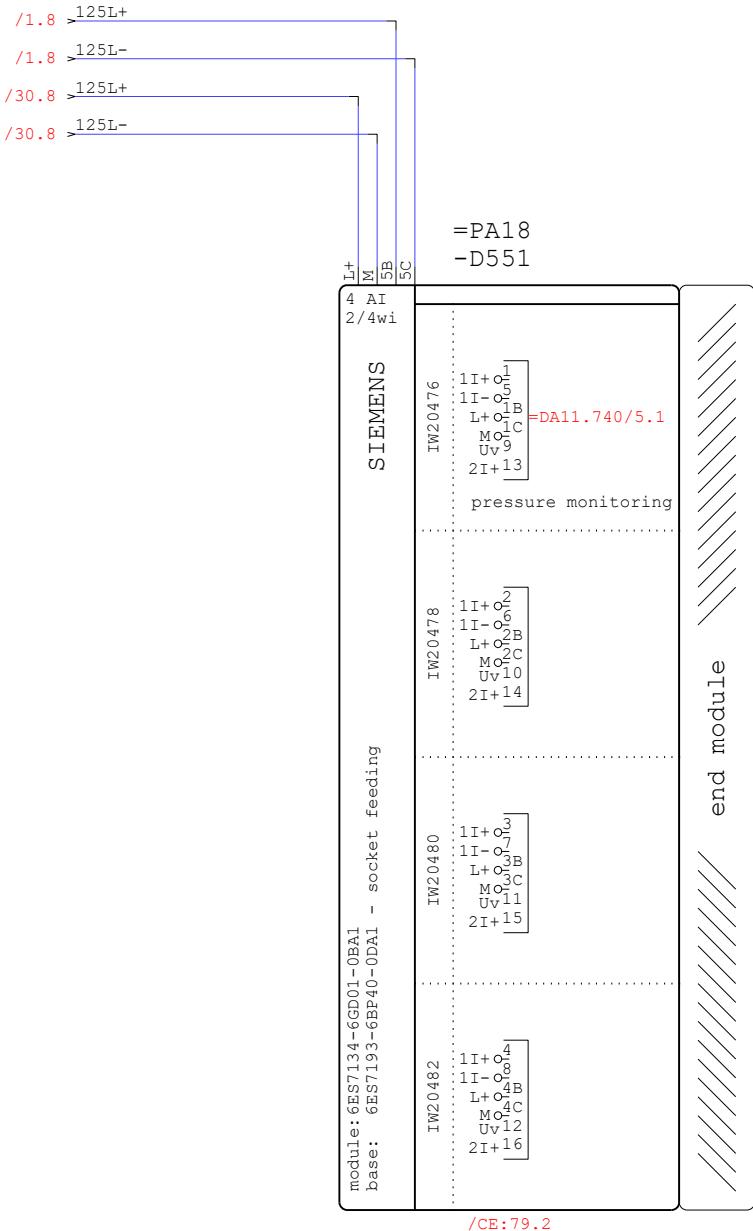
next page: 30

0 1 2 3 4 5 6 7 8

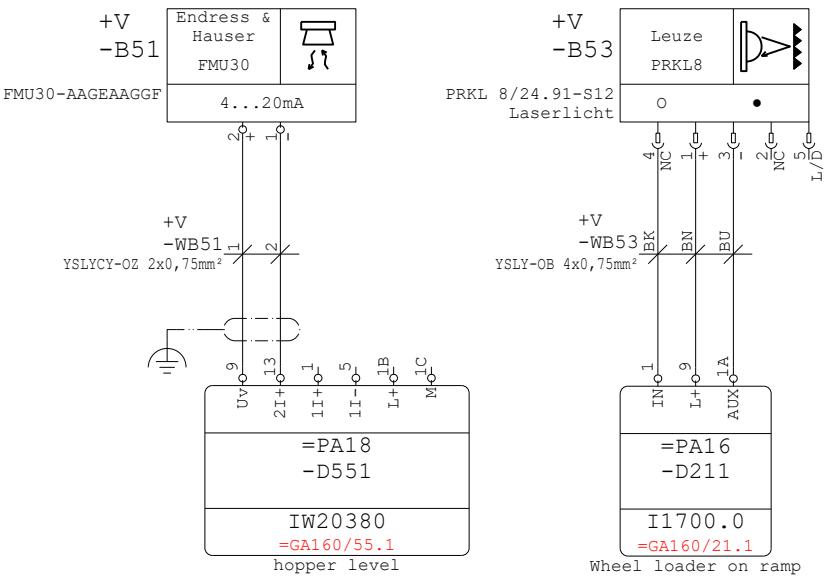


group general

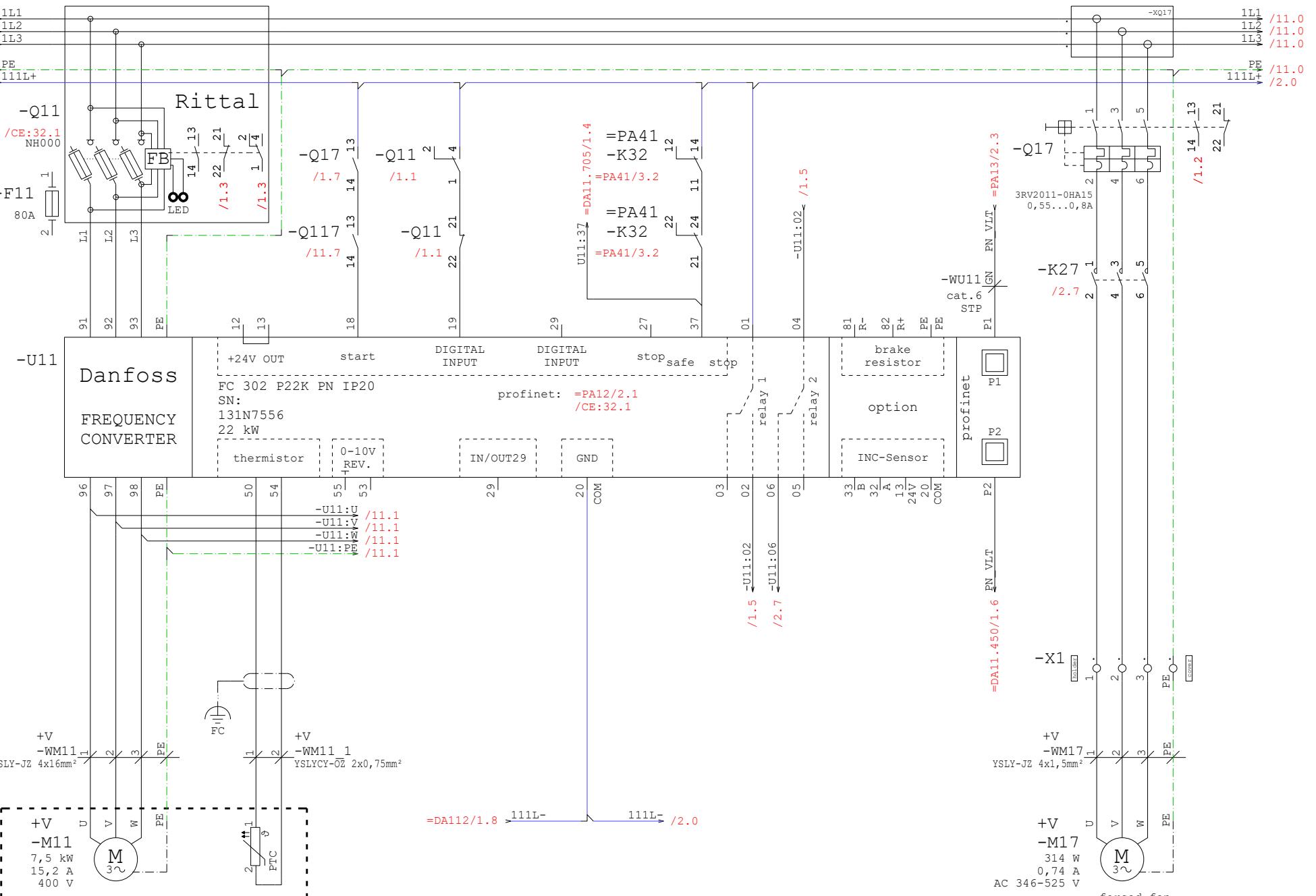
date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	junction box - (description)	=GA175
drn by	iA Pohli M				+GA175
check				PLC - digital outputs	page: 30
chg.			E.3598		next page: 55



date	2023-10-27	BMG FOS	KNAUF ENGINEERING E.3598	junction box - (description) PLC - analog inputs	=GA175
drn by	iA Pohli M	Route du Quai Minéralier			+GA175
check		13270 Fos-Sur-Mer			page: 55
chg.		France			next page: =DA11.400+GA16...



date	2023-11-29	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	KNAUF ENGINEERING	raw material - hopper	=DA11.400 +GA160
drn by	iA Pohli M				page: 5
check			E.3598	sensors	next page: =DA11.410+DA11...



date	2023-11-29	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	raw material - dosing belt	=DA11.410
drn by	iA Pohli M			drive 1	+DA112
check					page: 1
chg.					next page: 2

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!

0	1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---	---

/1.8 >111L+

111L+ /12.0

-U11:06

/1.5

-K127

/12.7

-K27

A1

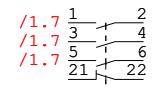
A2

/CE:32.1

3RT2017-2BB42

111L- /12.0

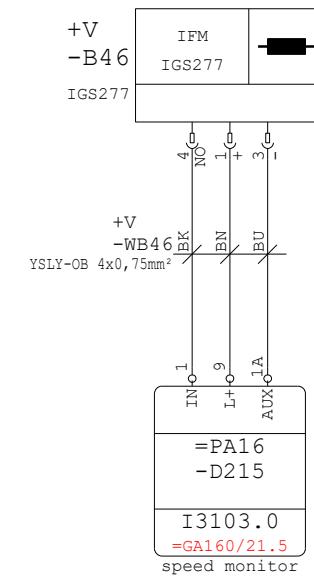
/1.4 >111L-



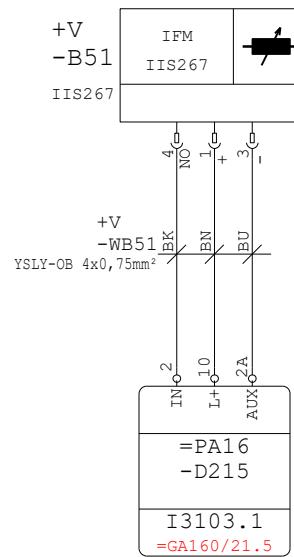
forced fan

date	2023-11-29	BMG FOS	KNAUF ENGINEERING raw material - dosing belt drive control	=DA11.410
drn by	iA Pohli M	Route du Quai Minéralier		+DA112
check		13270 Fos-Sur-Mer		page: 2
chg.		France		next page: 4

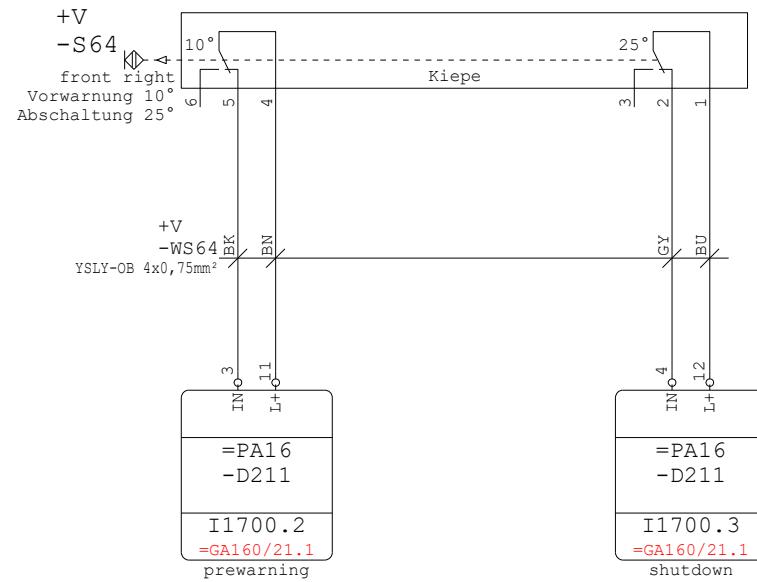
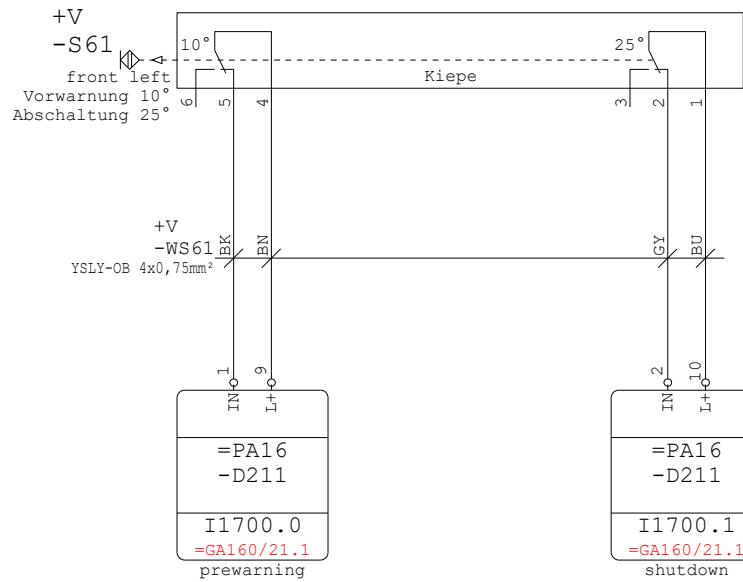
This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!



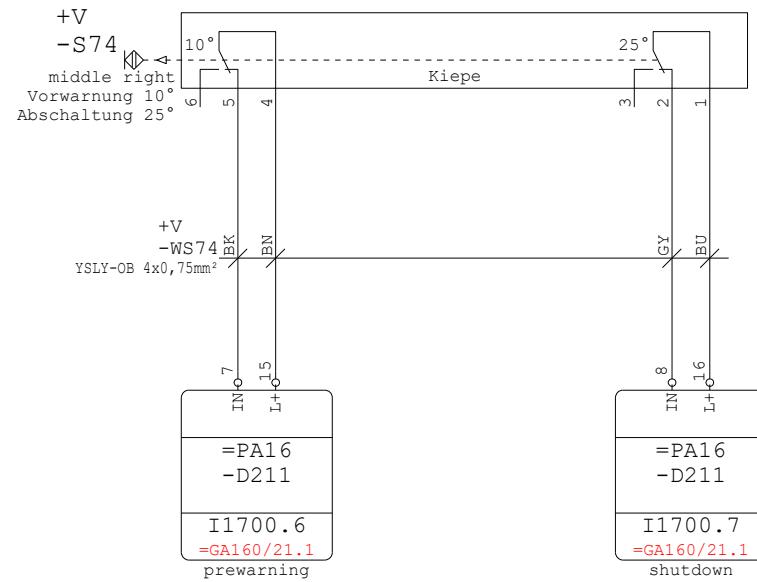
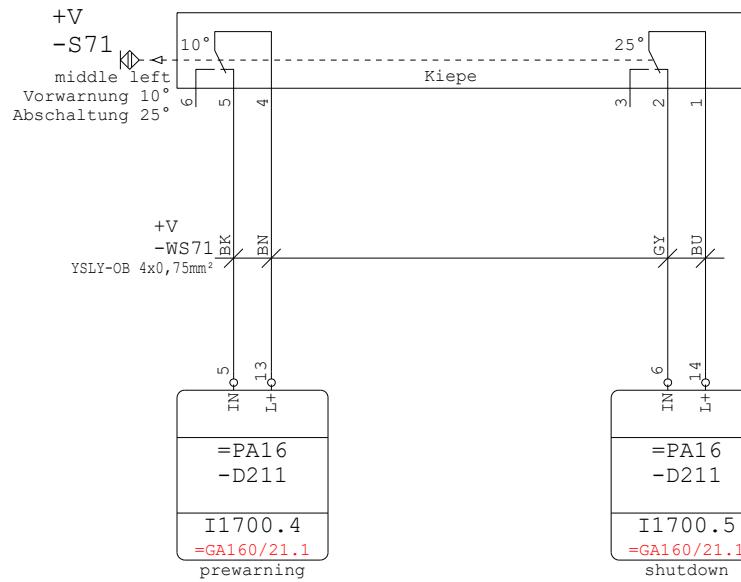
date	2023-11-29	BMG FOS	KNAUF ENGINEERING	raw material - dosing belt sensors	=DA11.410
drn by	iA Pohli M	Route du Quai Minéralier			+GA160
check		13270 Fos-Sur-Mer			page: 4
chg.		France			next page: 5



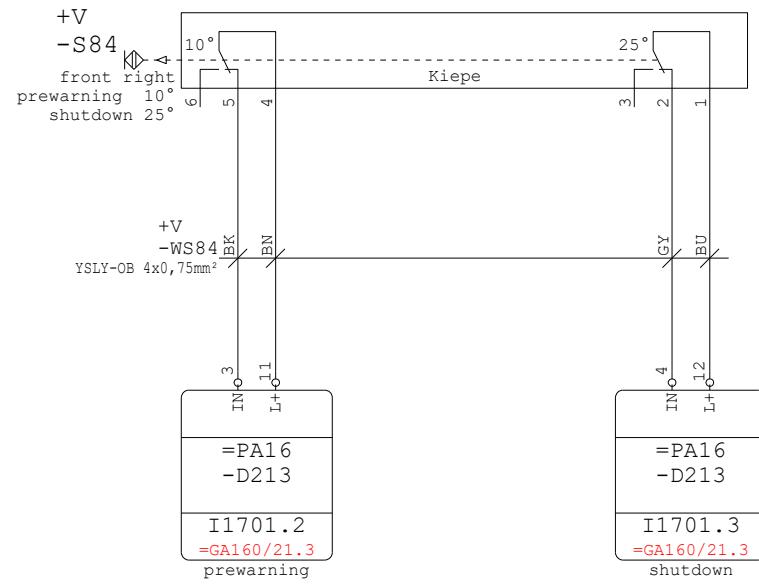
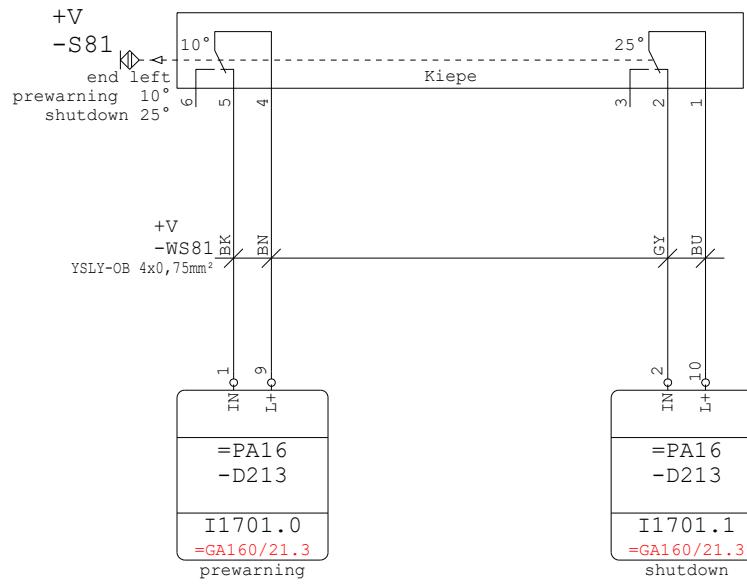
date	2023-11-29	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	KNAUF ENGINEERING	raw material - dosing belt sensors	=DA11.410 +GA160 page: 5 next page: 6
drn by	iA Pohli M				
check					
chg.			E.3598		



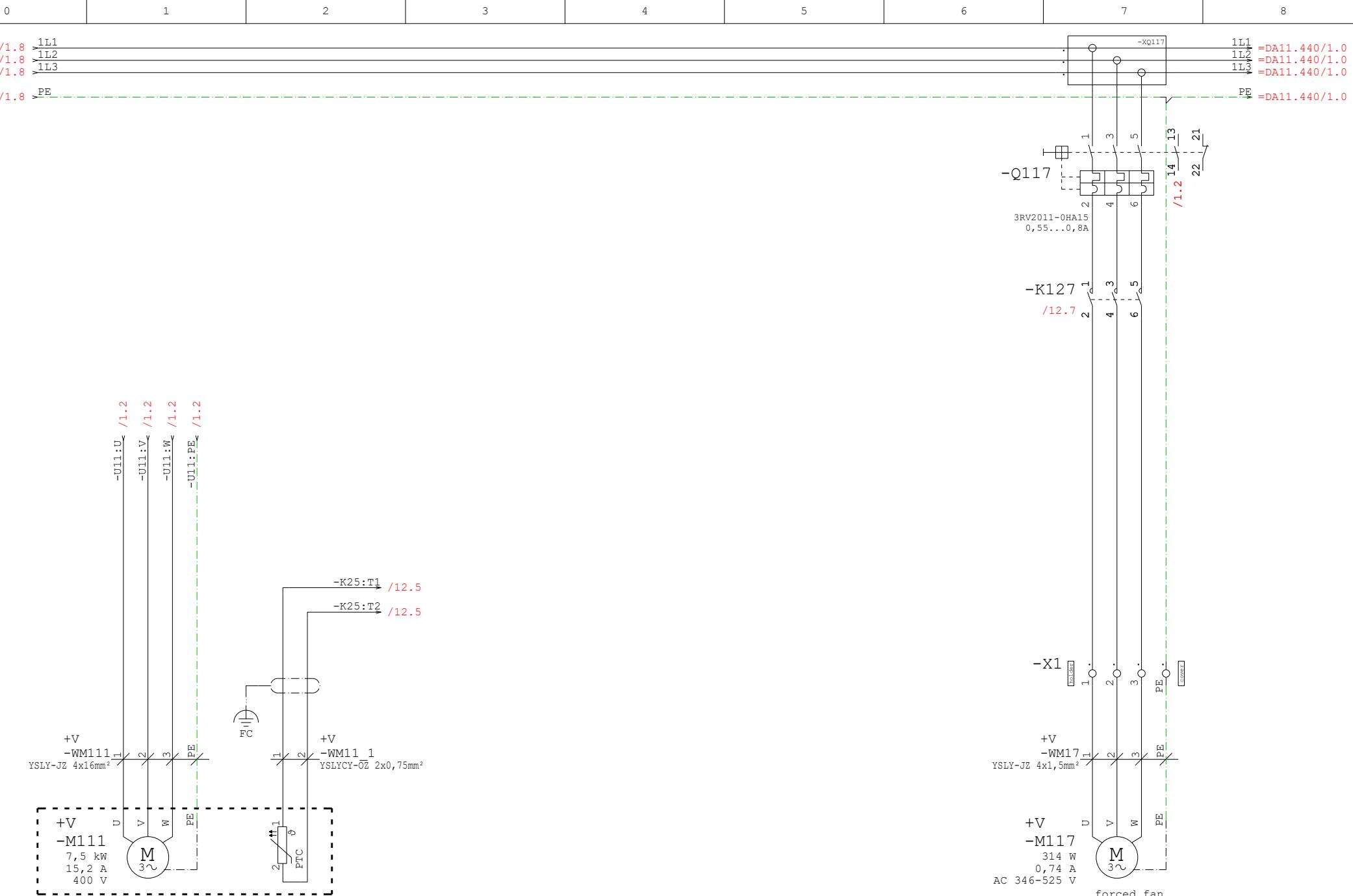
date	2023-11-29	BMG FOS	knauf ENGINEERING	raw material - dosing belt sensors	=DA11.410
drn by	iA Pohli M	Route du Quai Minéralier			+GA160
check		13270 Fos-Sur-Mer			page: 6
chg.		France			next page: 7
This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!					



date	2023-11-29	BMG FOS	knauf ENGINEERING	raw material - dosing belt sensors	=DA11.410
drn by	iA Pohli M	Route du Quai Minéralier			+GA160
check		13270 Fos-Sur-Mer			page: 7
chg.		France			next page: 8
This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!					



date	2023-11-29	BMG FOS	knauf ENGINEERING	raw material - dosing belt sensors	=DA11.410
drn by	iA Pohli M	Route du Quai Minéralier			+GA160
check		13270 Fos-Sur-Mer			page: 8
chg.		France			next page: 11



knauf **ENGINEERING**

E.3598

raw material - dosing belt

drive 2

=DA11.410

+DA112

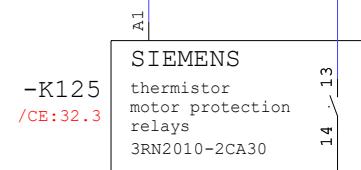
page: 11

next page: 12

0	1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---	---

/2.8 111L+

111L+ =DA11.420/2.0

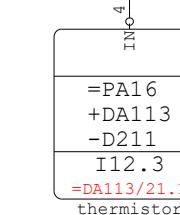


-K125
/CE:32.3

A2 T1 T2

-K25:T1
/11.2
-K25:T2
/11.2

14 13



IN



A1
A2

-K127 /2.7

111L- =DA11.420/2.0

/2.8 111L-

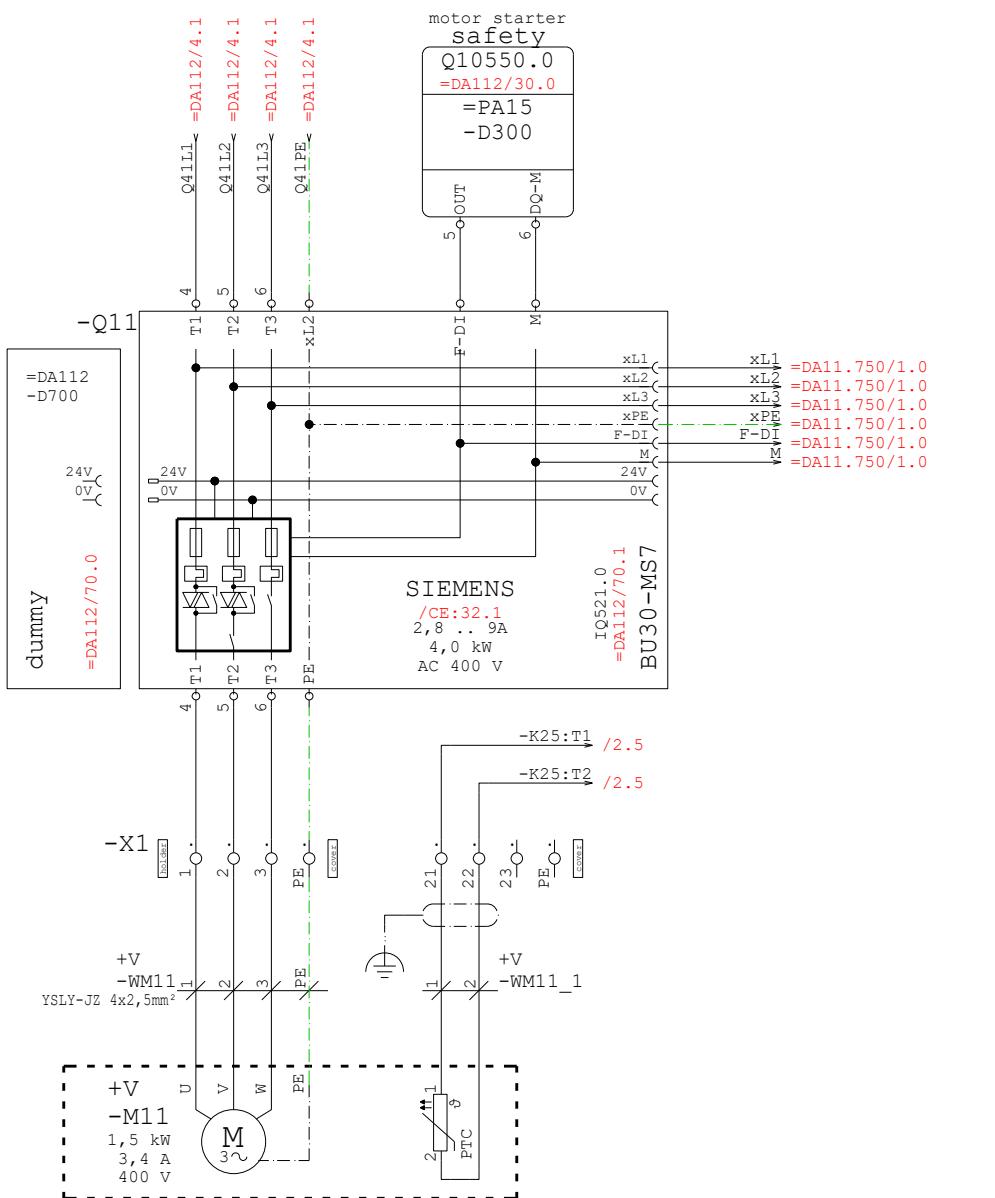
/12.6 13 14
21 22

/11.7 1 2
/11.7 3 4
/11.7 5 6
/11.7 21 22

forced fan

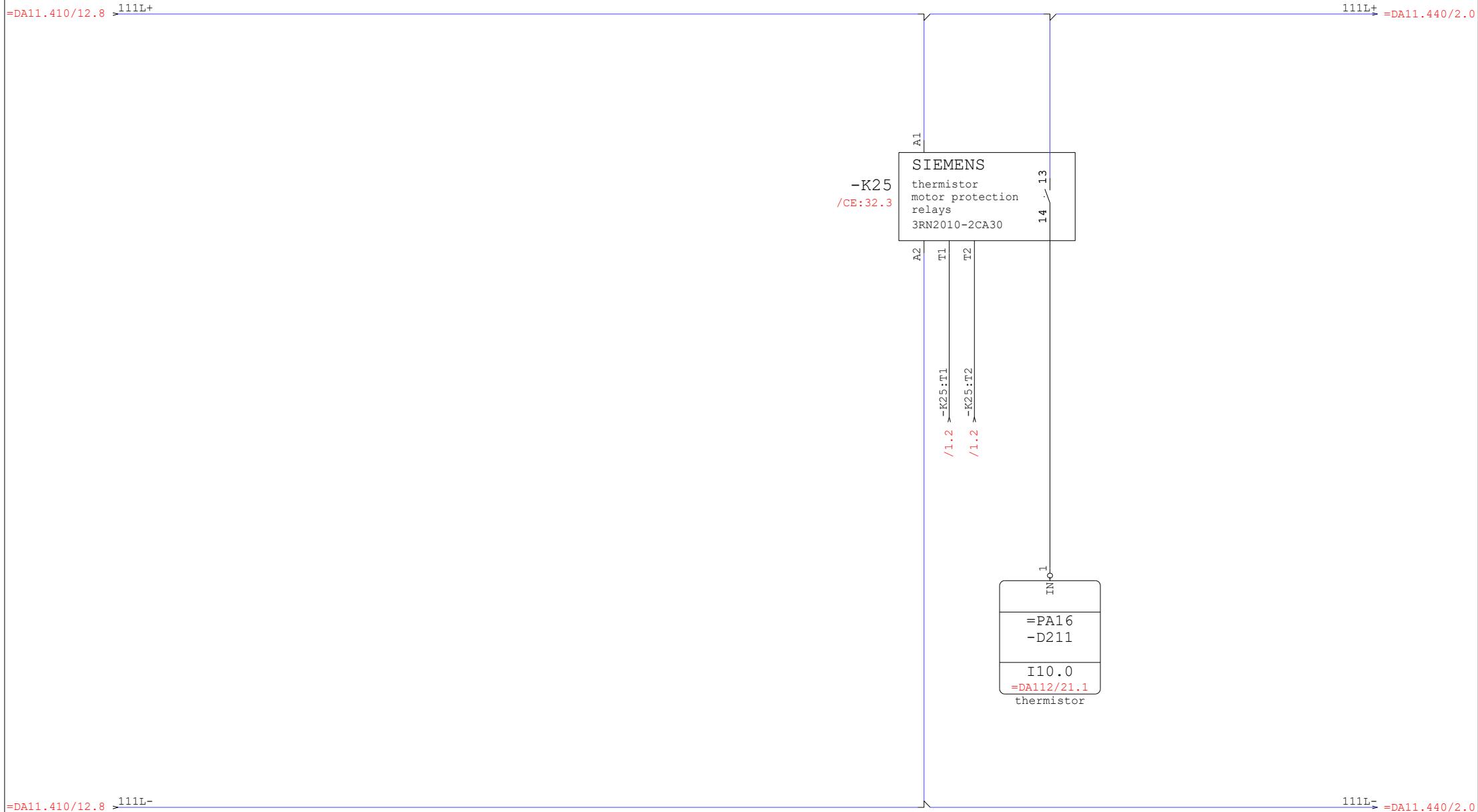
date	2023-11-29	BMG FOS	KNAUF ENGINEERING E.3598	raw material - dosing belt drive control	=DA11.410
drn by	iA Pohli M	Route du Quai Minéralier 13270 Fos-Sur-Mer France			+DA112
check					page: 12
chg.					next page: =DA11.420+DA11...

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!



date	2023-11-29	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	raw material - permanent magnet	=DA11.420
drn by	iA Pohli M				+DA112
check				drive	page: 1
chg.					next page: 2
	E.3598				

0	1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---	---



date	2023-11-29	BMG FOS	KNAUF ENGINEERING E.3598	raw material - permanent magnet drive - control	=DA11.420
drn by	iA Pohli M	Route du Quai Minéralier			+DA112
check		13270 Fos-Sur-Mer			page: 2
chg.		France			next page: =DA11.440+DA11...
This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!					

0

1

2

3

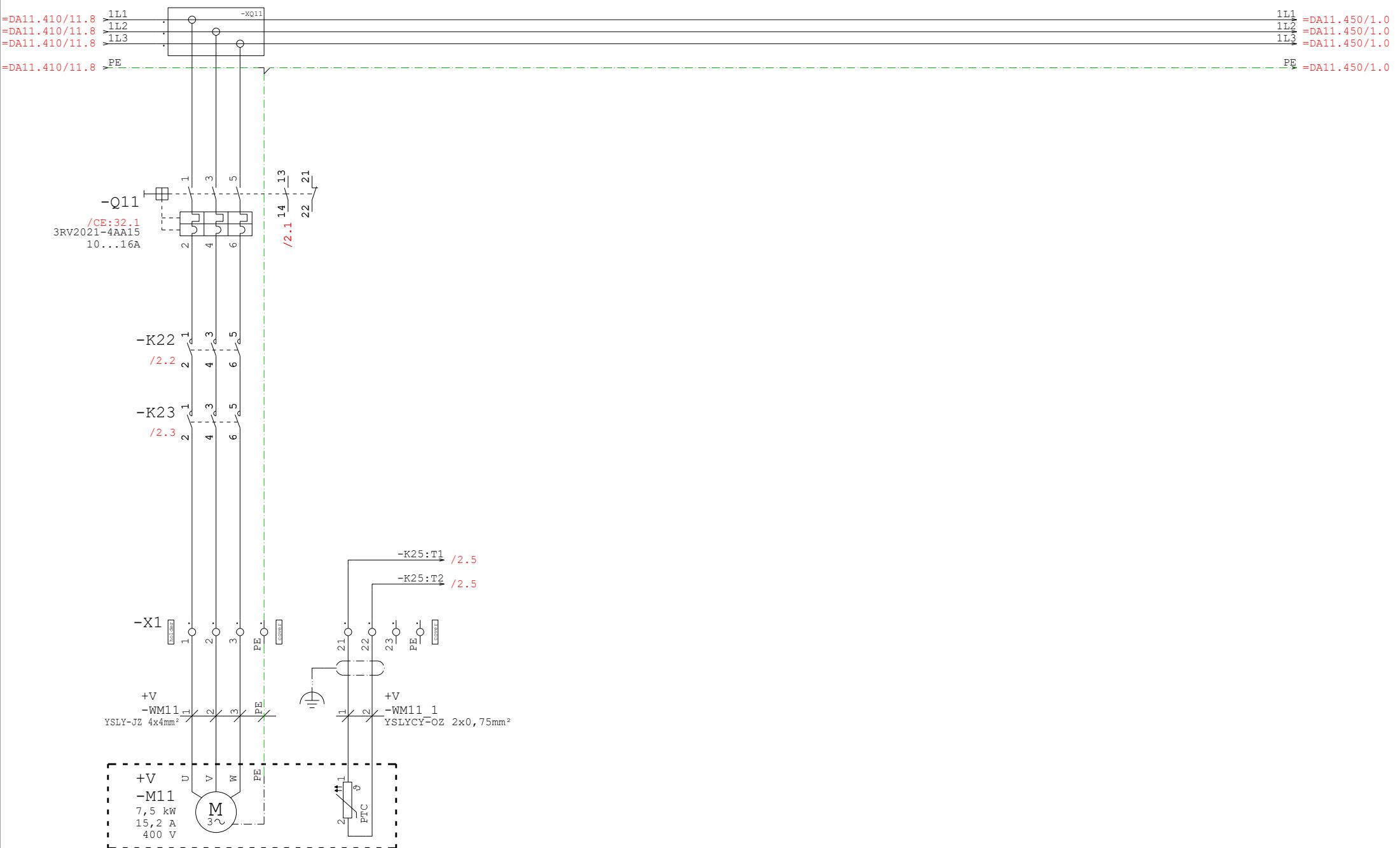
4

5

6

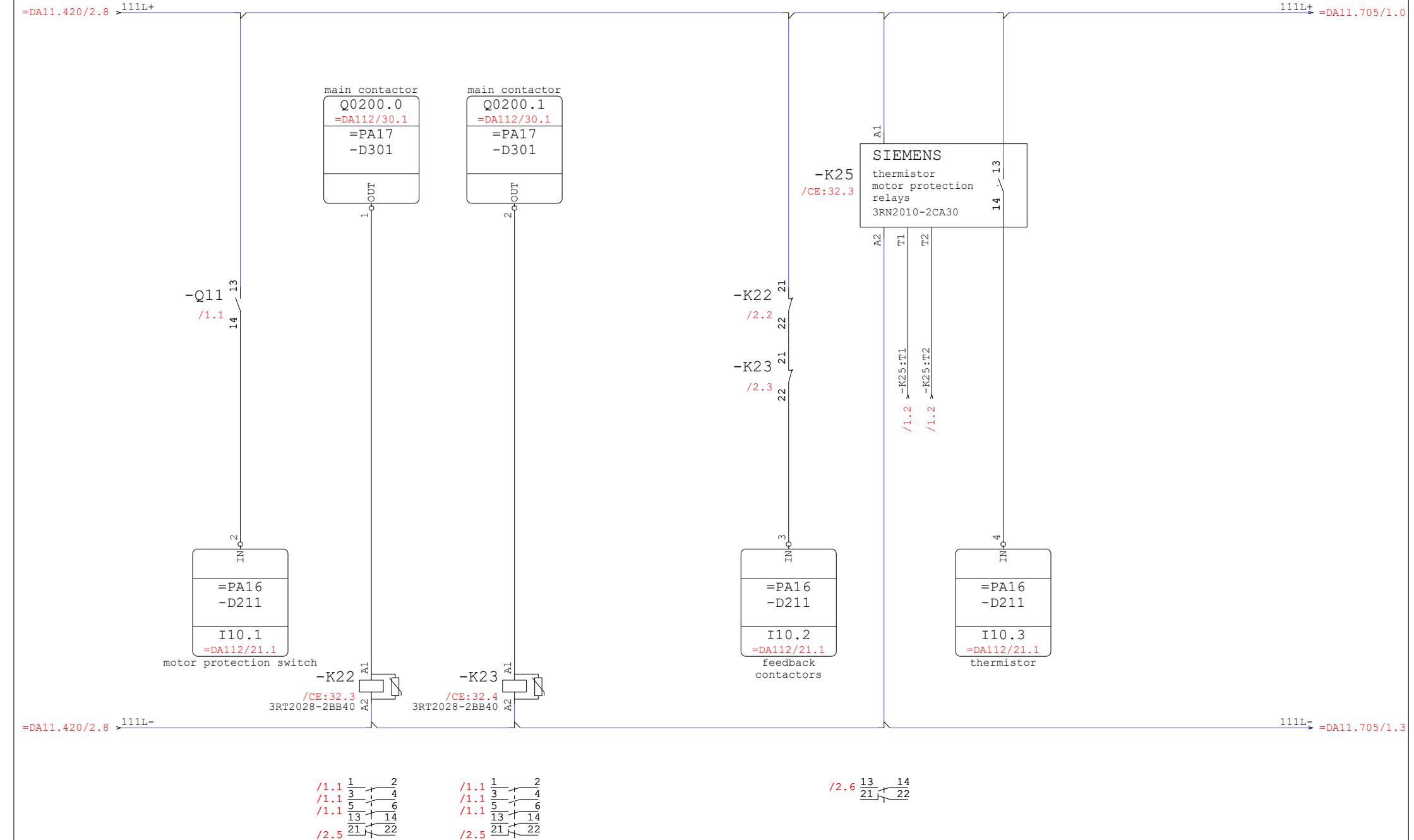
7

8



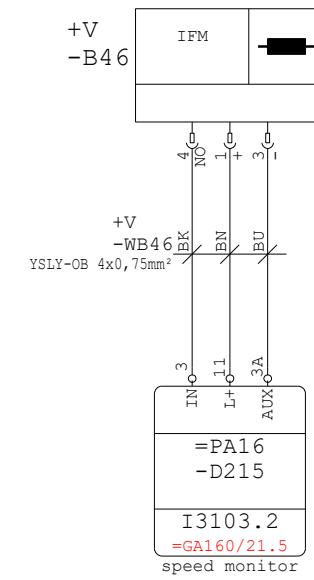
date	2023-11-29	BMG FOS	knauf ENGINEERING	raw material - belt drive	=DA11.440
drn by	iA Pohli M	Route du Quai Minéralier			+DA112
check		13270 Fos-Sur-Mer			page: 1
chg.		France			next page: 2

0 1 2 3 4 5 6 7 8



date	2023-11-29	BMG FOS	 E.3598	raw material - belt	=DA11.440
drn by	iA Pohli M	Route du Quai Minéralier		+DA112	page: 2
check		13270 Fos-Sur-Mer			next page: 4
chg.		France			

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!



date	2023-11-29	BMG FOS
drn by	iA Pohli M	Route du Quai Minéralier
check		13270 Fos-Sur-Mer
chg.		France

knauf ENGINEERING

E.3598

raw material - belt

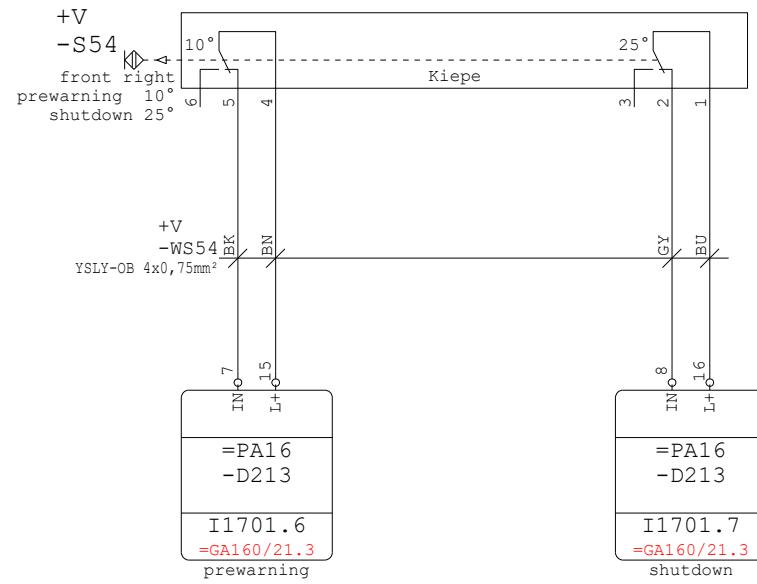
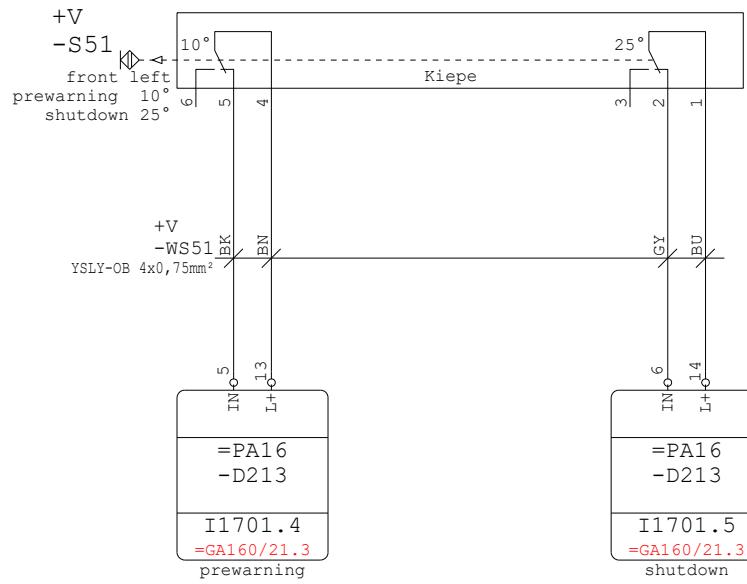
sensors

=DA11.440

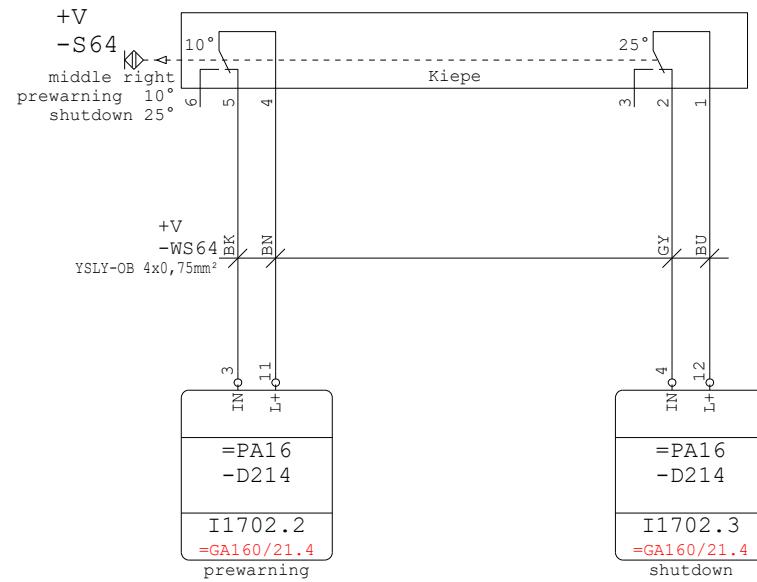
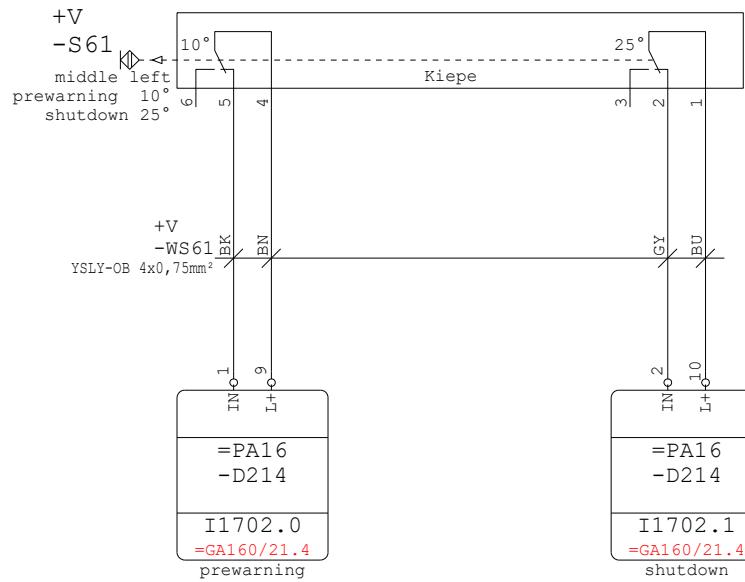
+GA160

page: 4

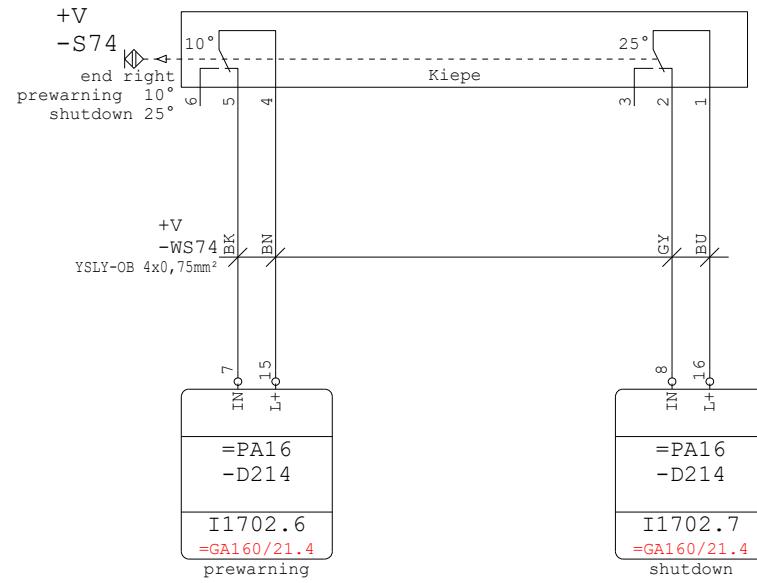
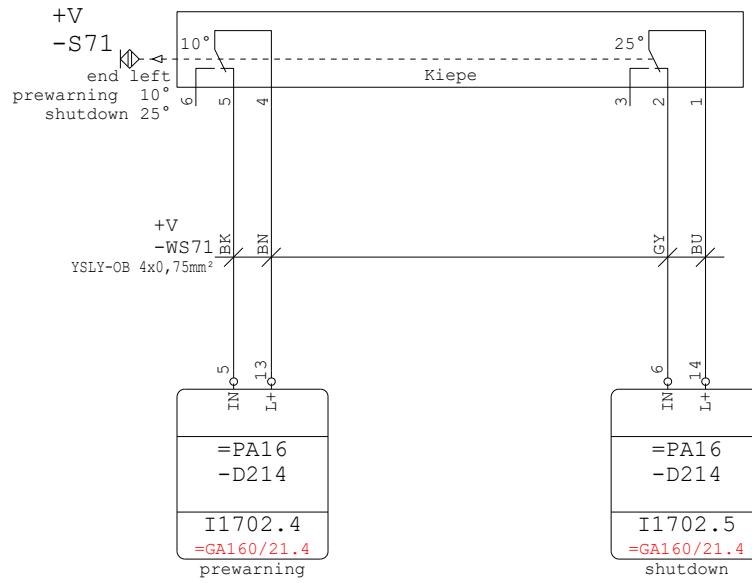
next page: 5



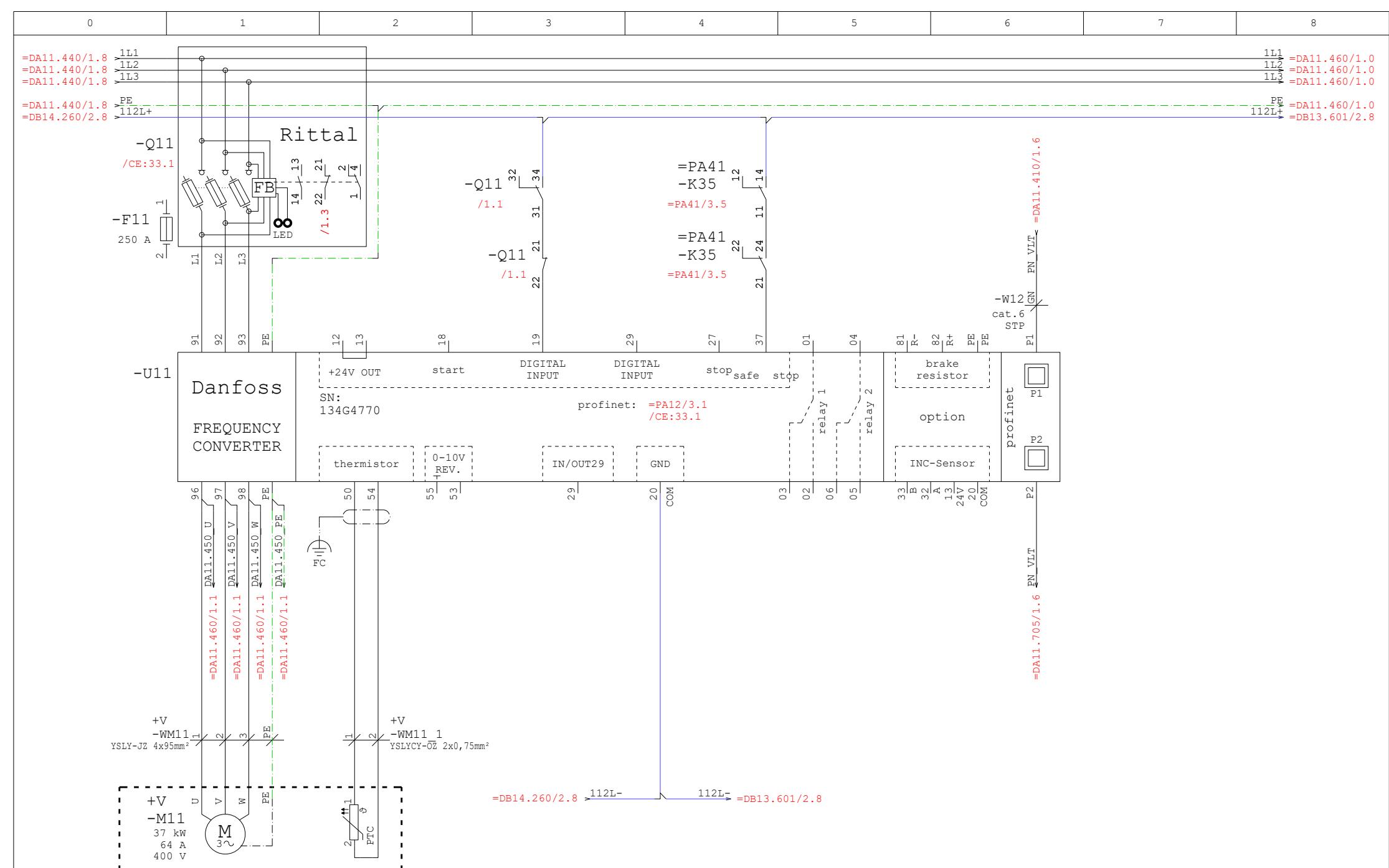
date	2023-11-29	BMG FOS	knauf ENGINEERING	raw material - belt sensors	=DA11.440
drn by	iA Pohli M	Route du Quai Minéralier			+GA160
check		13270 Fos-Sur-Mer			page: 5
chg.		France			next page: 6



date	2023-11-29	BMG FOS	knauf ENGINEERING	raw material - belt sensors	=DA11.440
drn by	iA Pohli M	Route du Quai Minéralier			+GA160
check		13270 Fos-Sur-Mer			page: 6
chg.		France			next page: 7

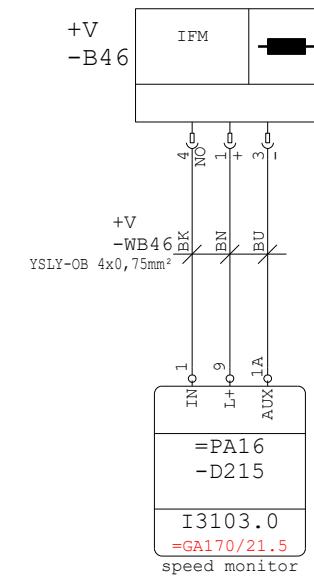


date	2023-11-29	BMG FOS	knauf ENGINEERING	raw material - belt	=DA11.440
drn by	iA Pohli M	Route du Quai Minéralier			+GA160
check		13270 Fos-Sur-Mer		sensors	page: 7
chg.		France		E.3598	next page: =DA11.450+DA11...



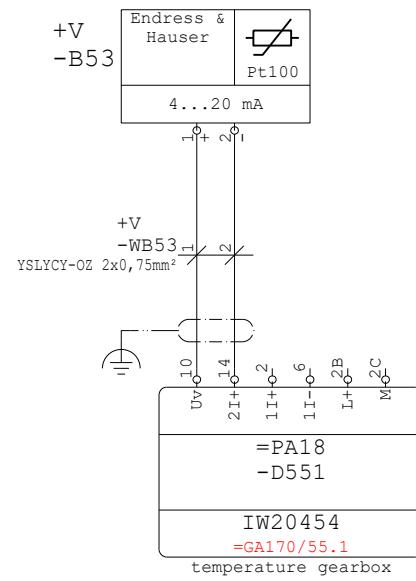
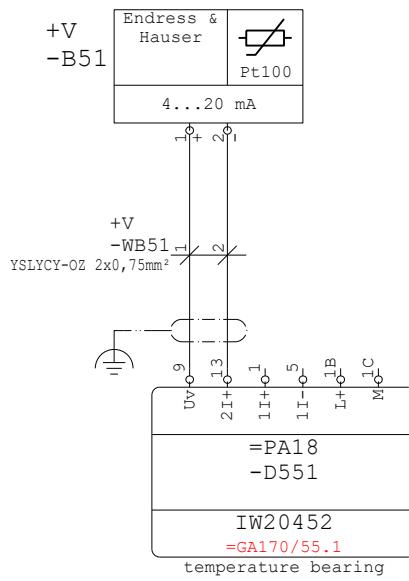
date	2023-11-29	BMG FOS		raw material - roll crusher - roll 1	=DA11.450
drn by	iA Pohli M	Route du Quai Minéralier			+DA113
check		13270 Fos-Sur-Mer		drive	page: 1
chg		France	E 3598		next page: 4

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!



date	2023-11-29	BMG FOS	KNAUF ENGINEERING	raw material - roll crusher - roll 1	=DA11.450
drn by	iA Pohli M	Route du Quai Minéralier			+GA170
check		13270 Fos-Sur-Mer		sensors	page: 4
chg.		France			next page: 5

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!

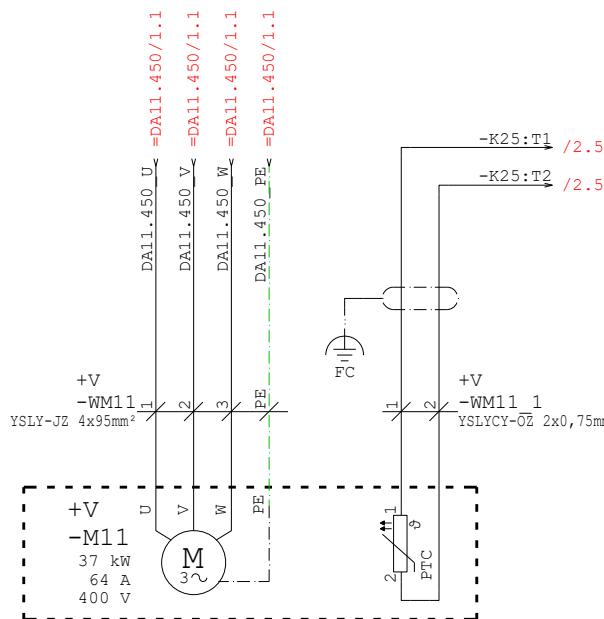


date	2023-11-29	BMG FOS	KNAUF ENGINEERING	raw material - roll crusher - roll 1	=DA11.450
drn by	iA Pohli M	Route du Quai Minéralier		+GA170	
check		13270 Fos-Sur-Mer		sensors	page: 5
chg.		France			next page: =DA11.460+DA11...

0	1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---	---

=DA11.450/1.8 1L1 1L1 =DA11.480/1.0
 =DA11.450/1.8 1L2 1L2 =DA11.480/1.0
 =DA11.450/1.8 1L3 1L3 =DA11.480/1.0

 =DA11.450/1.8 PE 112L+ 112L+ PE =DA11.480/1.0
 =DA113/1.8 112L+ 112L+ /2.0



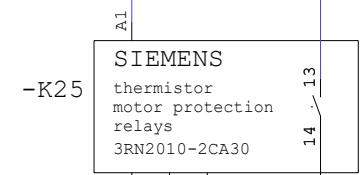
date	2023-11-29	BMG FOS	raw material - roll crusher - roll 2		=DA11.460
drn by	iA Pohli M	Route du Quai Minéralier			+DA113
check		13270 Fos-Sur-Mer	drive		page: 1
chg.		France			next page: 2

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!

0	1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---	---

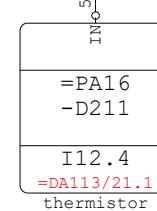
/1.8 >112L+

112L+ =DA11.480/2.0



/1.2
-K25:T1

/1.2
-K25:T2



5

=DA113/1.8 >112L-

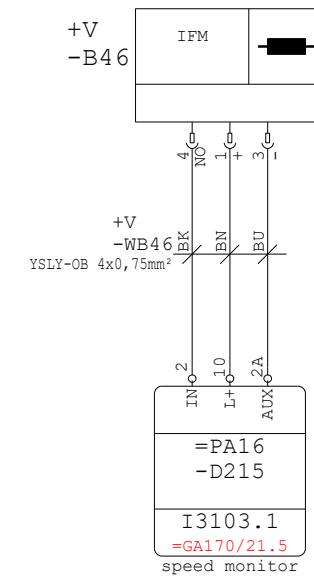
112L- =DA11.480/2.0

/2.6
13
21
14
22

forced fan

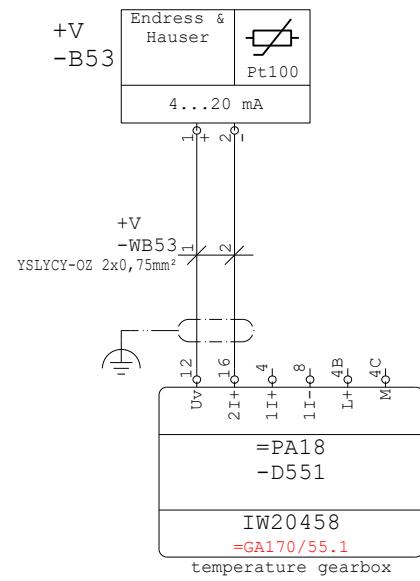
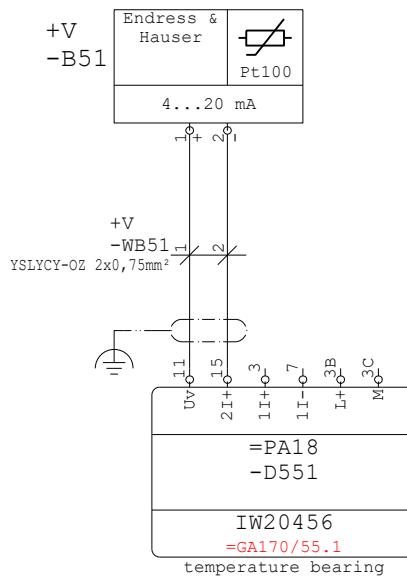
date	2023-11-29	BMG FOS	KNAUF ENGINEERING E.3598	raw material - roll crusher - roll 2 drive control	=DA11.460
drn by	iA Pohli M	Route du Quai Minéralier			+DA113
check		13270 Fos-Sur-Mer			page: 2
chg.		France			next page: 4

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!

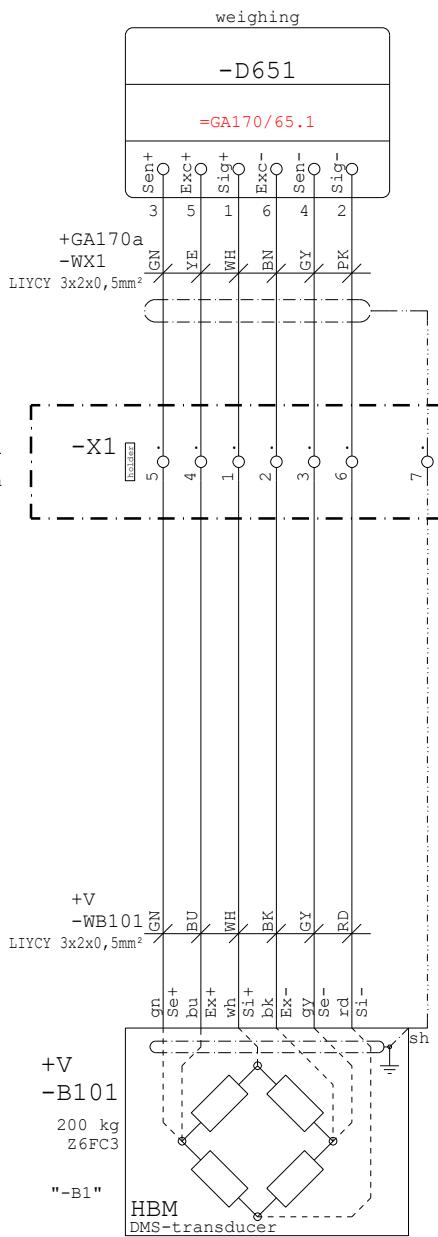


date	2023-11-29	BMG FOS	KNAUF ENGINEERING raw material - roll crusher - roll 2 sensors	=DA11.460
drn by	iA Pohli M	Route du Quai Minéralier		+GA170
check		13270 Fos-Sur-Mer		page: 4
chg.		France		next page: 5

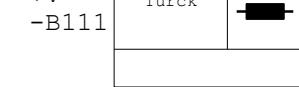
This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!



date	2023-11-29	BMG FOS	KNAUF ENGINEERING	raw material - roll crusher - roll 2 sensors	=DA11.460
drn by	iA Pohli M	Route du Quai Minéralier			+GA170
check		13270 Fos-Sur-Mer			page: 5
chg.		France			next page: =DA11.470+GA17...

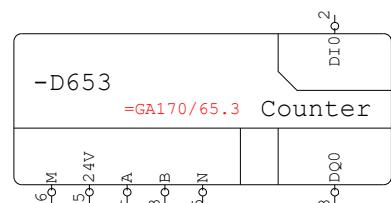


date	2023-11-29	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	raw material - single roll belt scale	=DA11.470 +GA170 page: 10 next page: 11
drn by	iA Pohli M				
check					
chg.			E.3598		



+V
-WB111 BK BN BU

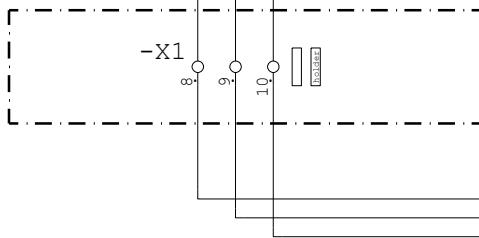
YSLY-OB 4x0,75mm²



+GA170a
-WX113 BK BN BU

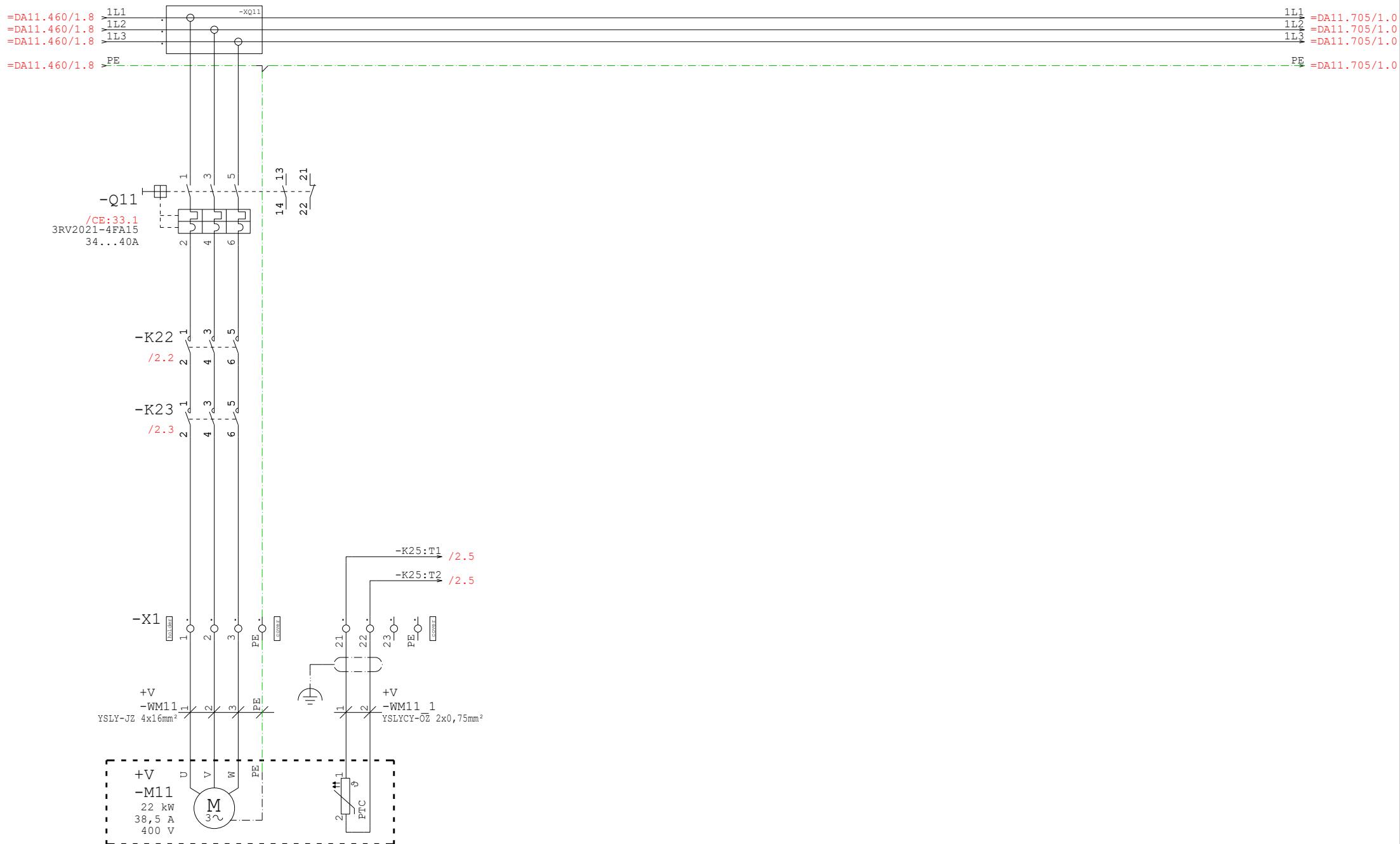
YSLY-OB 4x0,75mm²

GA170a
Kukla



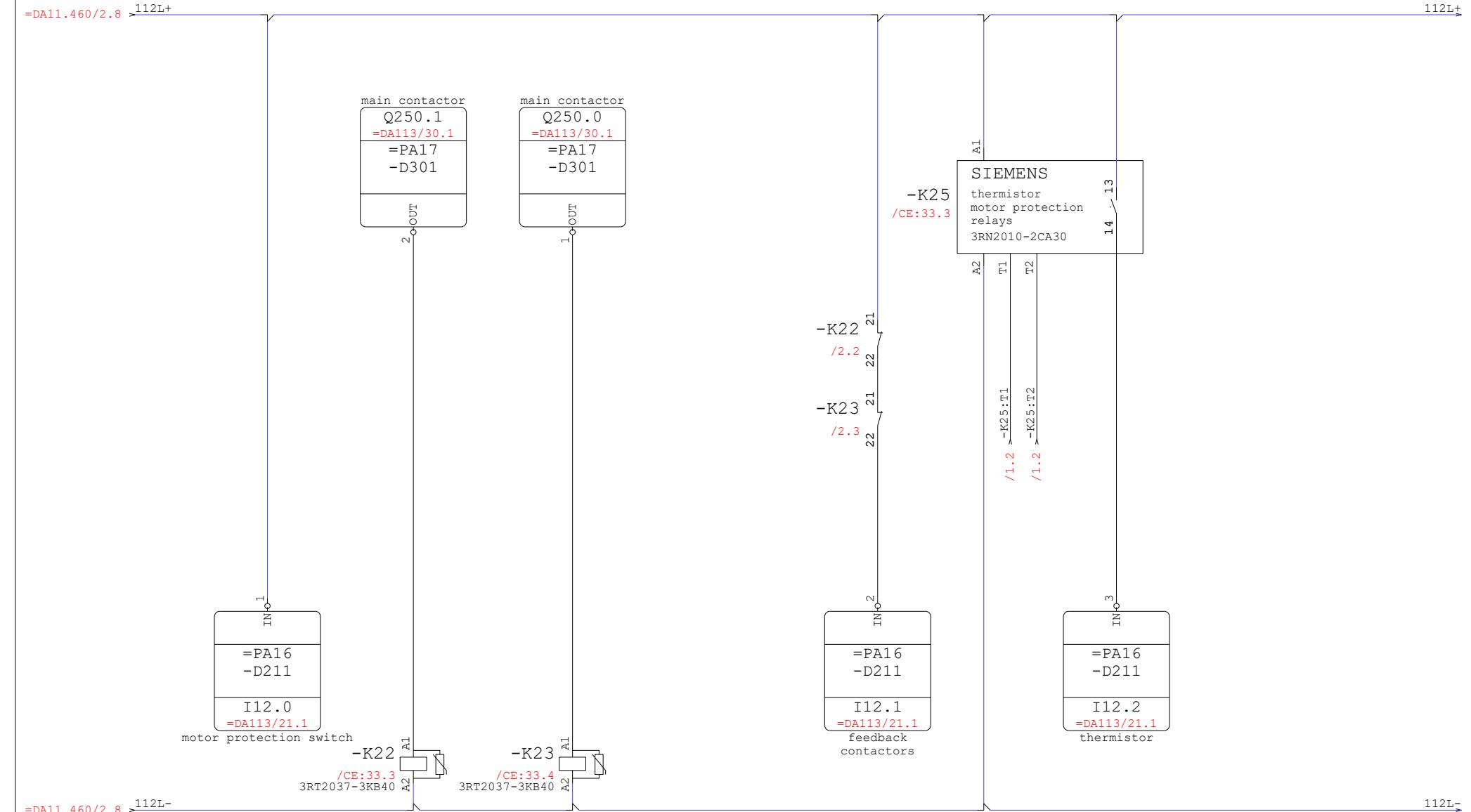
date	2023-11-29	BMG FOS	KNAUF ENGINEERING	raw material - single roll belt scale	=DA11.470
drn by	iA Pohli M	Route du Quai Minéralier			+GA170
check		13270 Fos-Sur-Mer			page: 11
chg.		France			next page: =DA11.480+DA11...

0	1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---	---



date	2023-11-29	BMG FOS	knauf ENGINEERING	raw material - transport - silo	=DA11.480
drn by	iA Pohli M	Route du Quai Minéralier		+DA113	
check		13270 Fos-Sur-Mer		drive	page: 1
chg.		France			next page: 2

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!

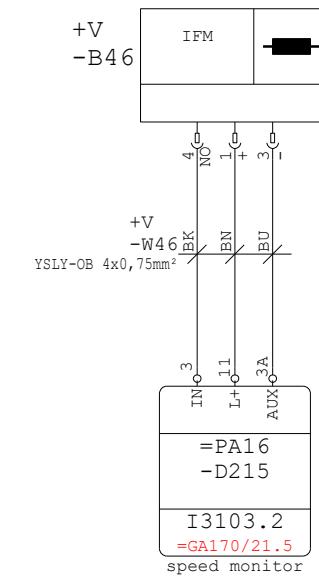


/1.1 1 2
/1.1 3 4
/1.1 5 6
/1.1 13 14
/2.5 21 22

/1.1 1 2
/1.1 3 4
/1.1 5 6
/1.1 13 14
/2.5 21 22

/2.6 13 14
21 22

date	2023-11-29	BMG FOS		raw material - transport - silo	=DA11.480
drn by	iA Pohli M	Route du Quai Minéralier	knauf ENGINEERING		+DA113
check		13270 Fos-Sur-Mer		drive - control	page: 2
chg.		France	E.3598		next page: 4



date	2023-11-29	BMG FOS
drn by	iA Pohli M	Route du Quai Minéralier
check		13270 Fos-Sur-Mer
chg.		France



E.3598

raw material - transport - silo

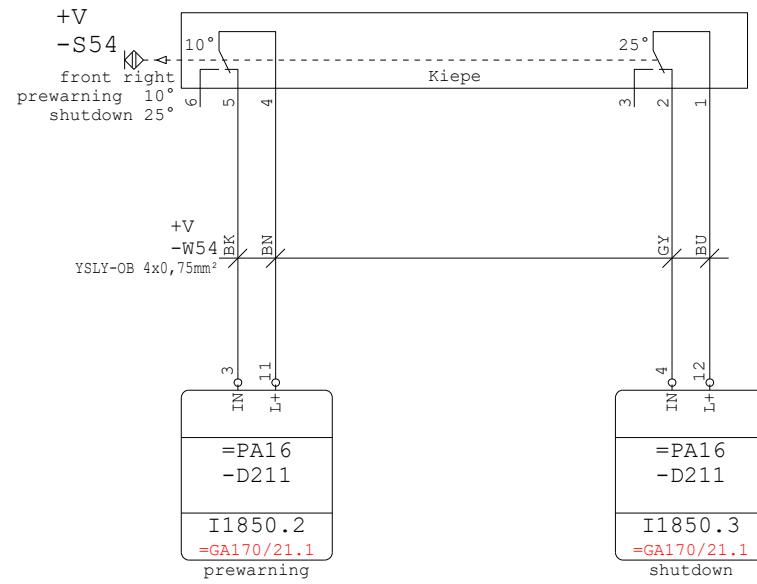
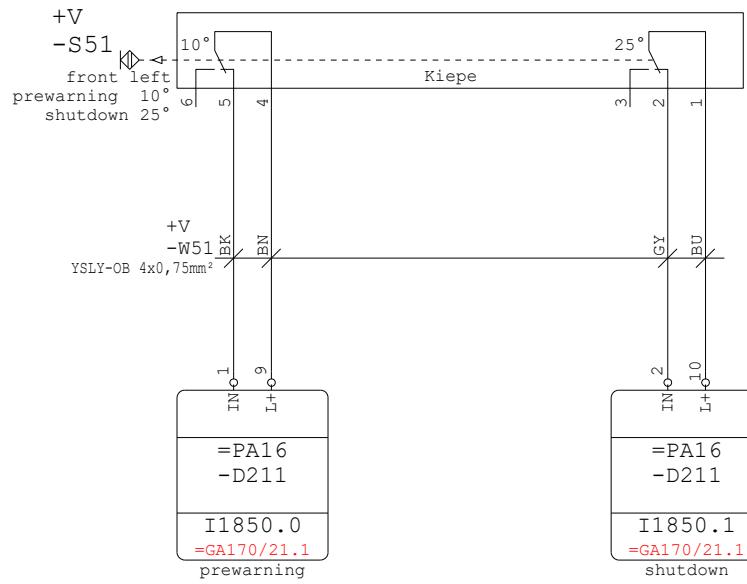
sensors

=DA11.480

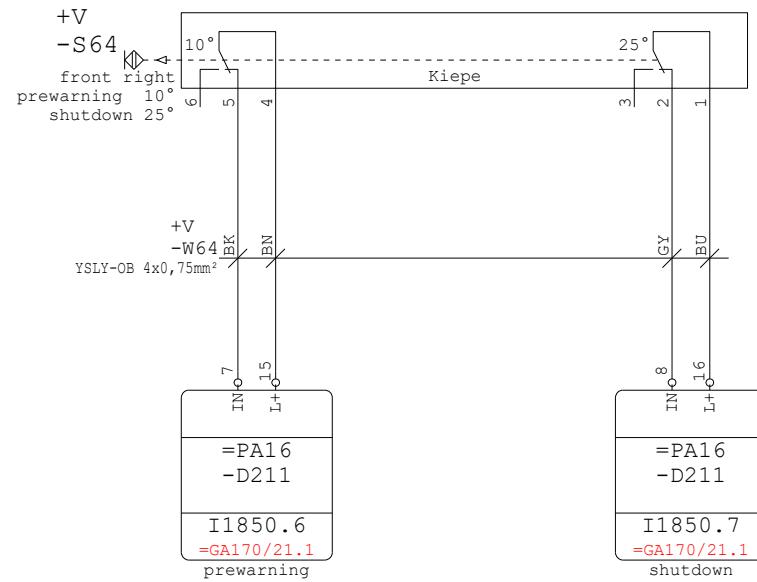
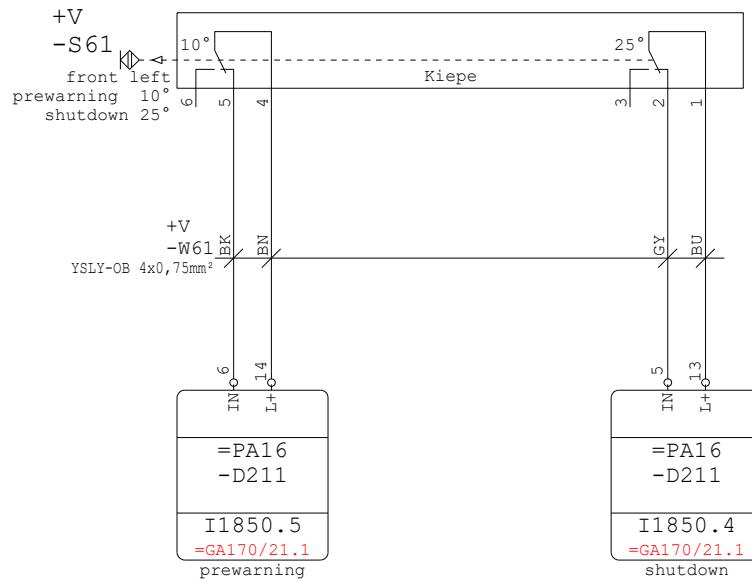
+GA170

page: 4

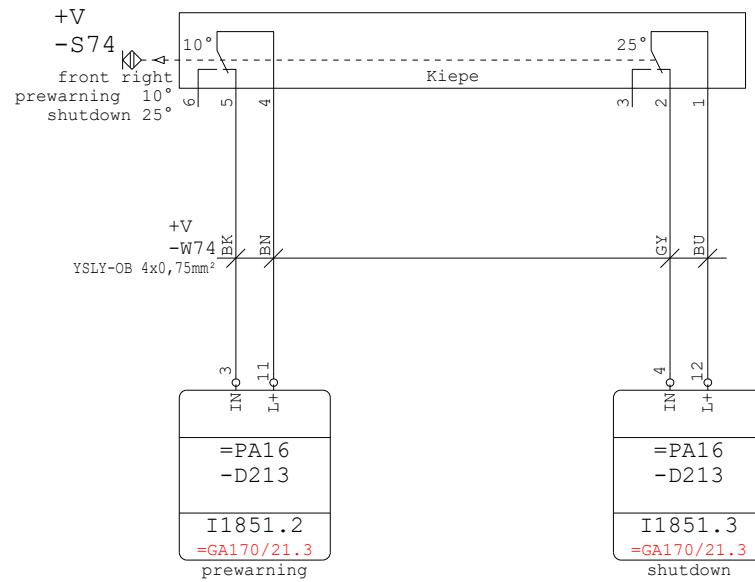
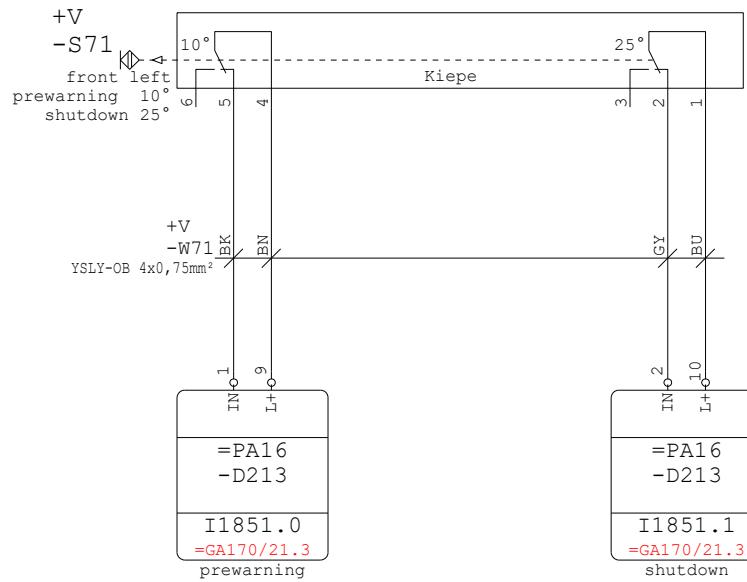
next page: 5



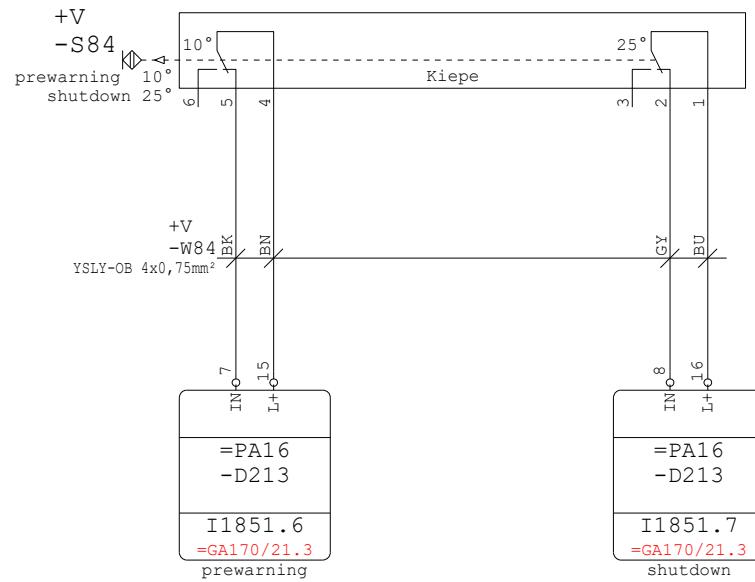
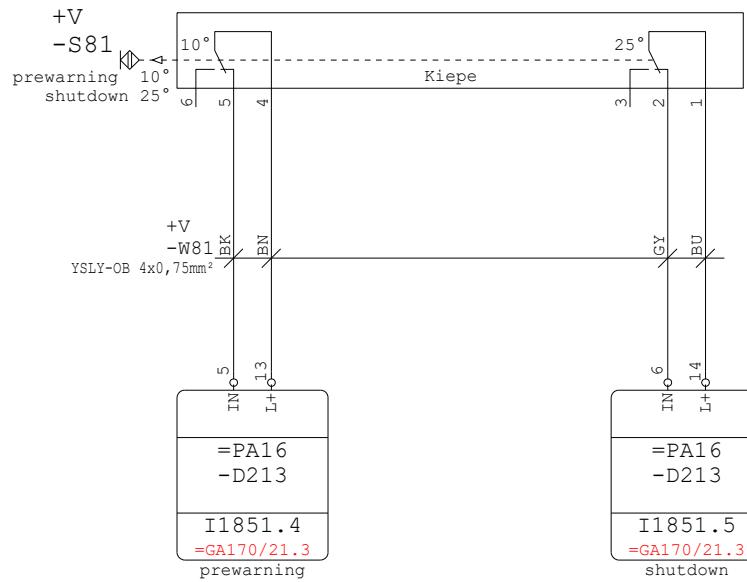
date	2023-10-27	BMG FOS	knauf ENGINEERING	raw material - transport - silo sensors	=DA11.480
drn by	iA Pohli M	Route du Quai Minéralier			+GA170
check		13270 Fos-Sur-Mer			page: 5
chg.		France			next page: 6
This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!					



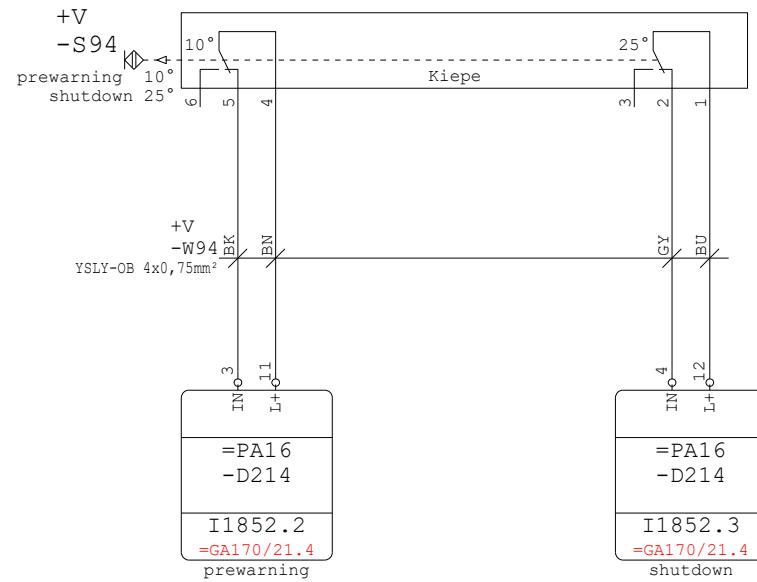
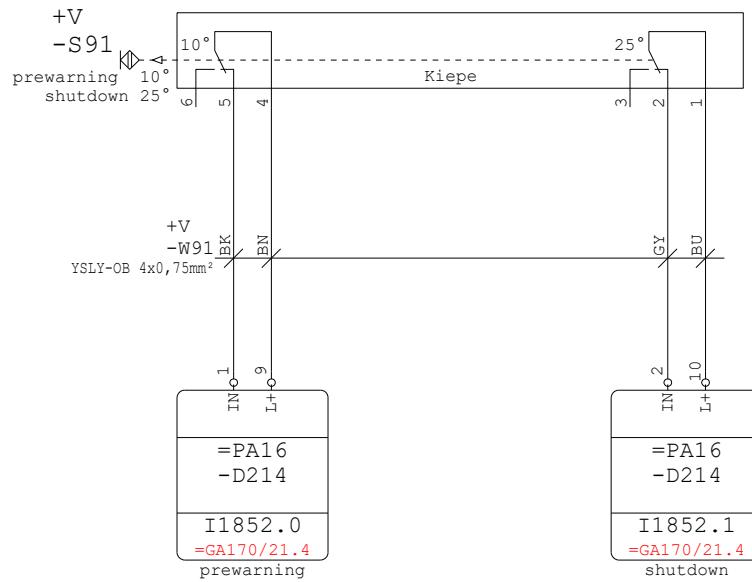
date	2023-10-27	BMG FOS	knauf ENGINEERING	raw material - transport - silo sensors	=DA11.480
drn by	iA Pohli M	Route du Quai Minéralier			+GA170
check		13270 Fos-Sur-Mer			page: 6
chg.		France			next page: 7



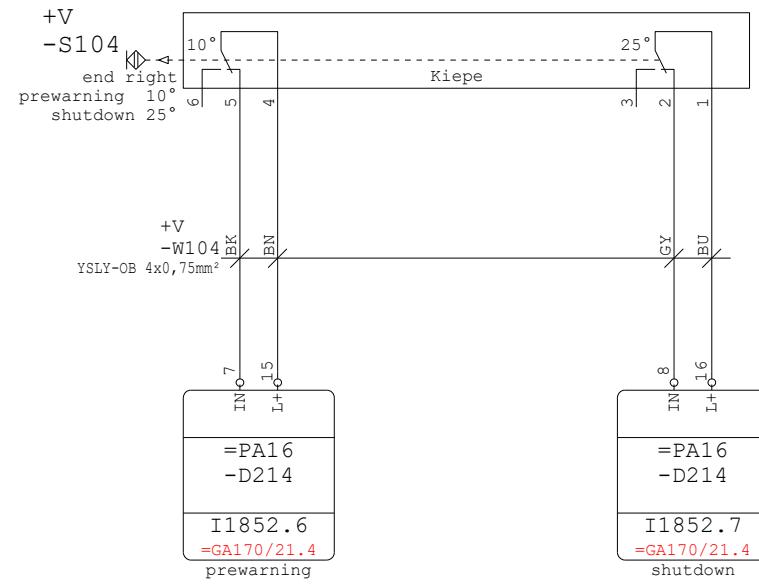
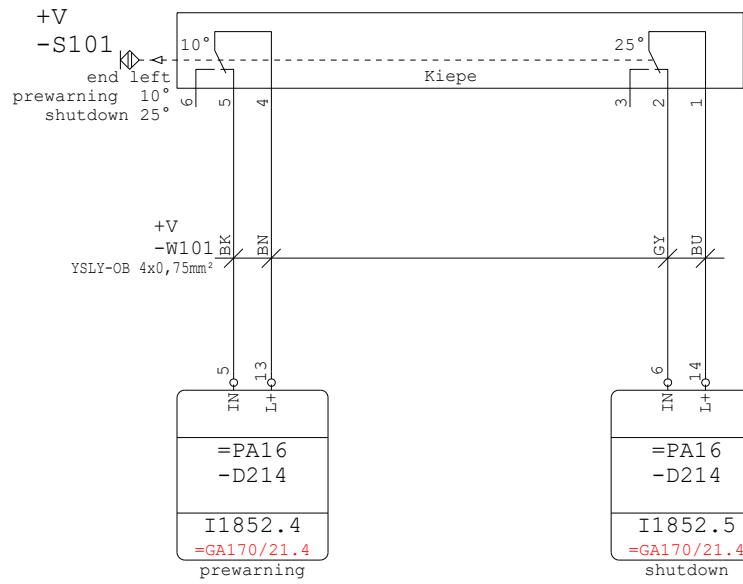
date	2023-10-27	BMG FOS	knauf ENGINEERING	raw material - transport - silo sensors	=DA11.480
drn by	iA Pohli M	Route du Quai Minéralier			+GA170
check		13270 Fos-Sur-Mer			page: 7
chg.		France			next page: 8



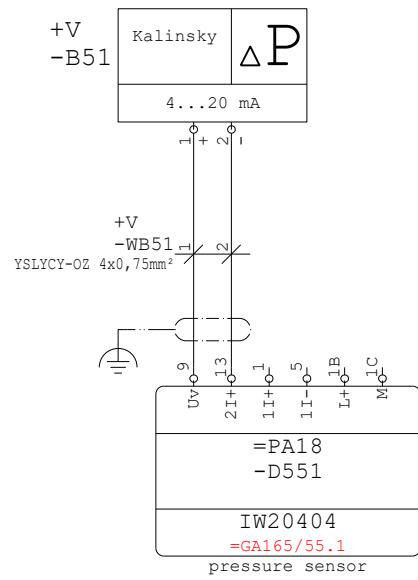
date	2023-10-27	BMG FOS	knauf ENGINEERING	raw material - transport - silo sensors	=DA11.480
drn by	iA Pohli M	Route du Quai Minéralier			+GA170
check		13270 Fos-Sur-Mer			page: 8
chg.		France			next page: 9



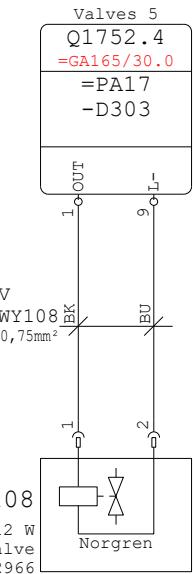
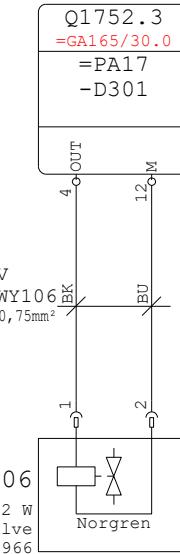
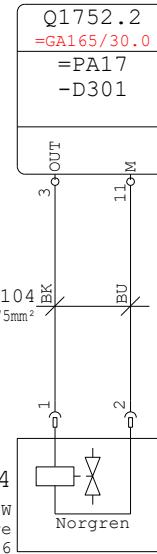
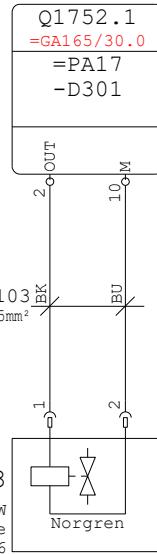
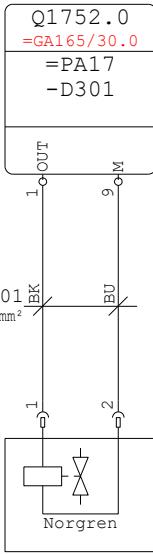
date	2023-10-27	BMG FOS	knauf ENGINEERING	raw material - transport - silo sensors	=DA11.480
drn by	iA Pohli M	Route du Quai Minéralier			+GA170
check		13270 Fos-Sur-Mer			page: 9
chg.		France			next page: 10



date	2023-12-12	BMG FOS	knauf ENGINEERING	raw material - transport - silo sensors	=DA11.480
drn by	iA Pohli M	Route du Quai Minéralier			+GA170
check		13270 Fos-Sur-Mer			page: 10
chg.		France			next page: =DA11.700+GA16..
This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!					



date	2023-11-29	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	raw material - dedusting - milling calcination sensors	=DA11.700 +GA165 page: 5 next page: 10
This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!					



date 2023-11-29

BMG FOS
Route du Quai Minéralier

13270 Fos-Sur-Mer

France

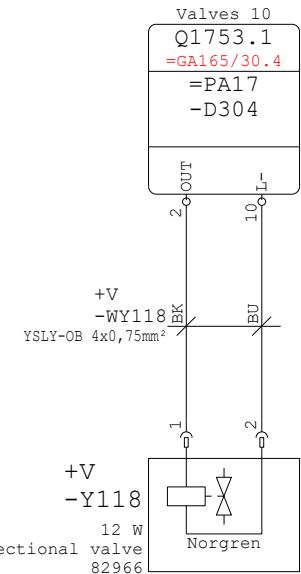
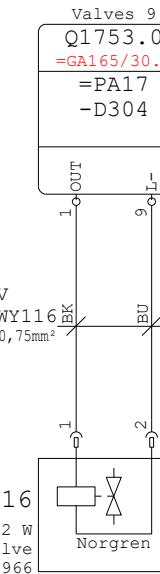
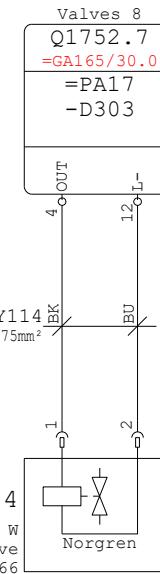
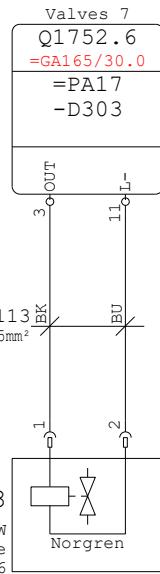
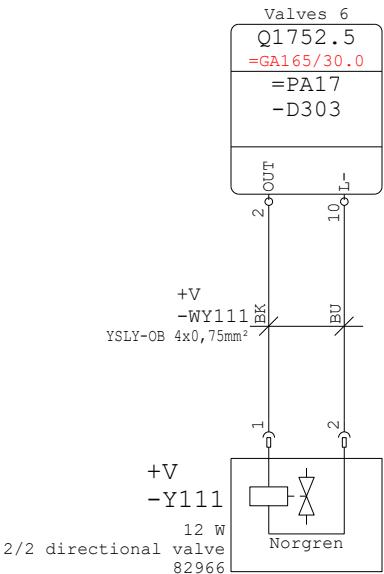
KNAUF ENGINEERING

E.3598

raw material - dedusting - milling calcination

valves

=DA11.700
+GA165page: 10
next page: 11

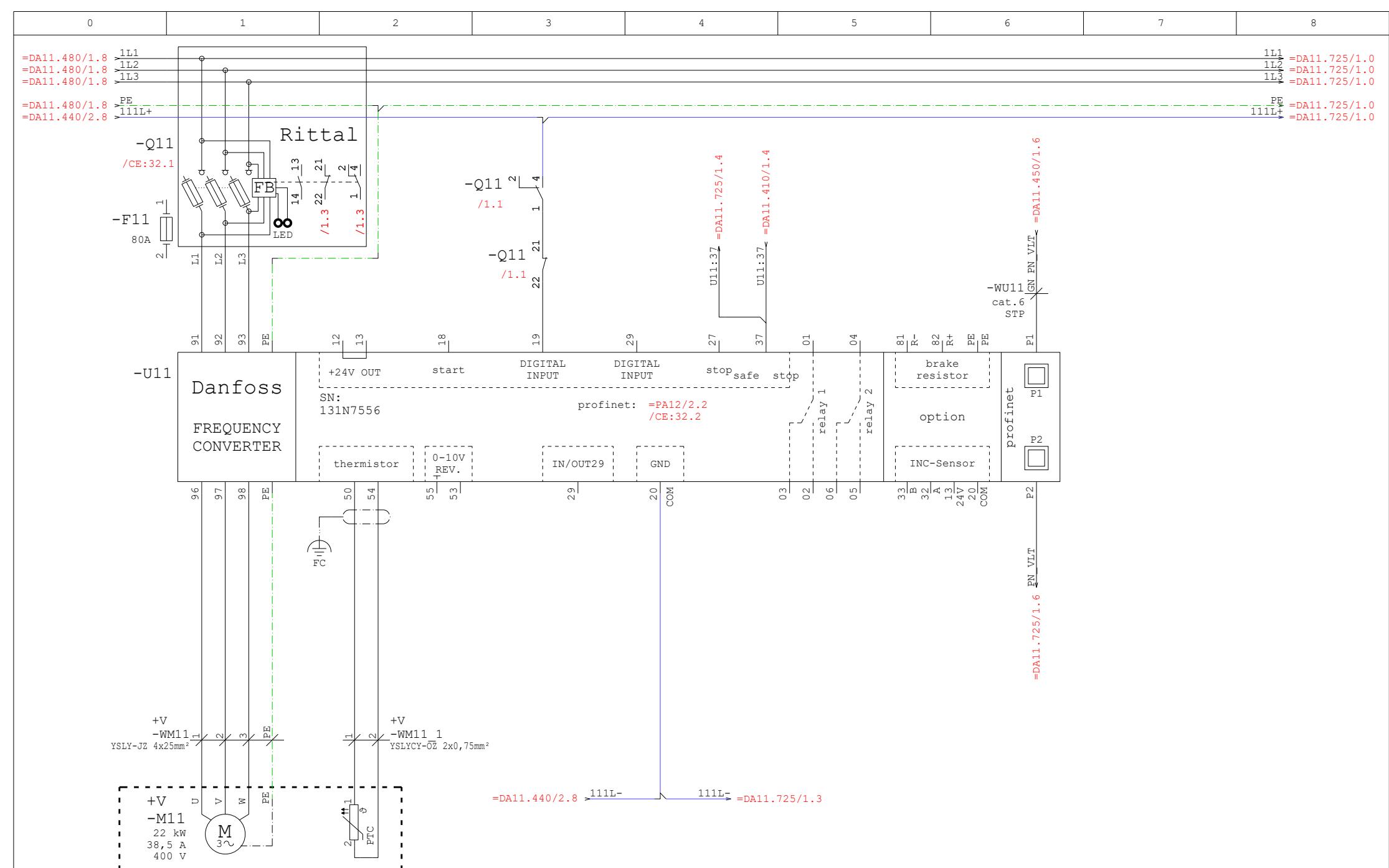


date	2023-11-29	BMG FOS
drn by	iA Pohli M	Route du Quai Minéralier
check		13270 Fos-Sur-Mer
chg.		France

KNAUF ENGINEERING

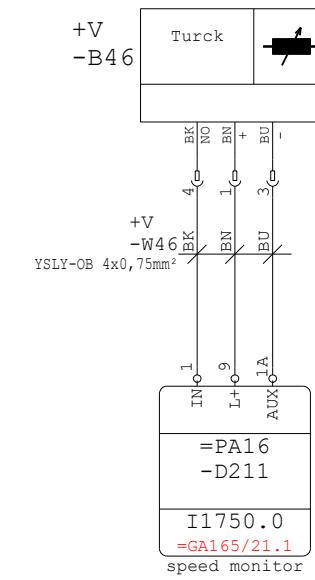
raw material - dedusting - milling calcination
valves

=DA11.700
+GA165
page: 11
next page: =DA11.705+DA11...



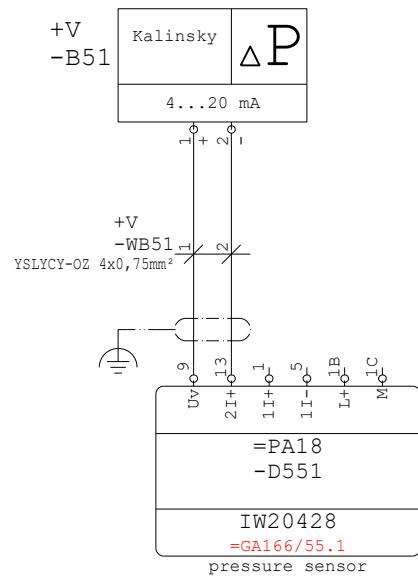
date	2023-11-29	BMG FOS		raw material - dedusting - milling calicination - ventilator	=DA11.705
drn by	iA Pohli M	Route du Quai Minéralier			+DA112
check		13270 Fos-Sur-Mer		drive	page: 1
chg		France	E 3598		next page: 4

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!

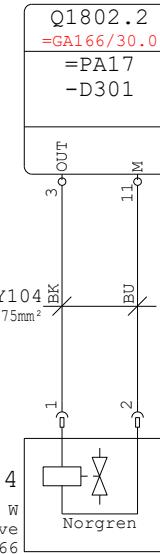
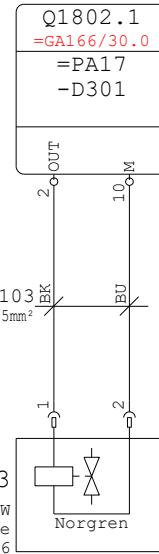
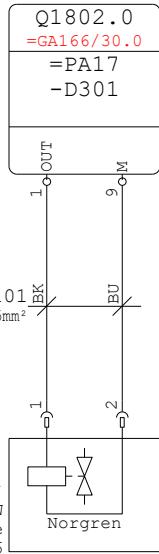


date	2023-11-29	BMG FOS	KNAUF ENGINEERING	raw material - dedusting - milling calicination - ventilator sensors	=DA11.705
drn by	iA Pohli M	Route du Quai Minéralier			+GA165
check		13270 Fos-Sur-Mer			page: 4
chg.		France			next page: =DA11.720+GA16...

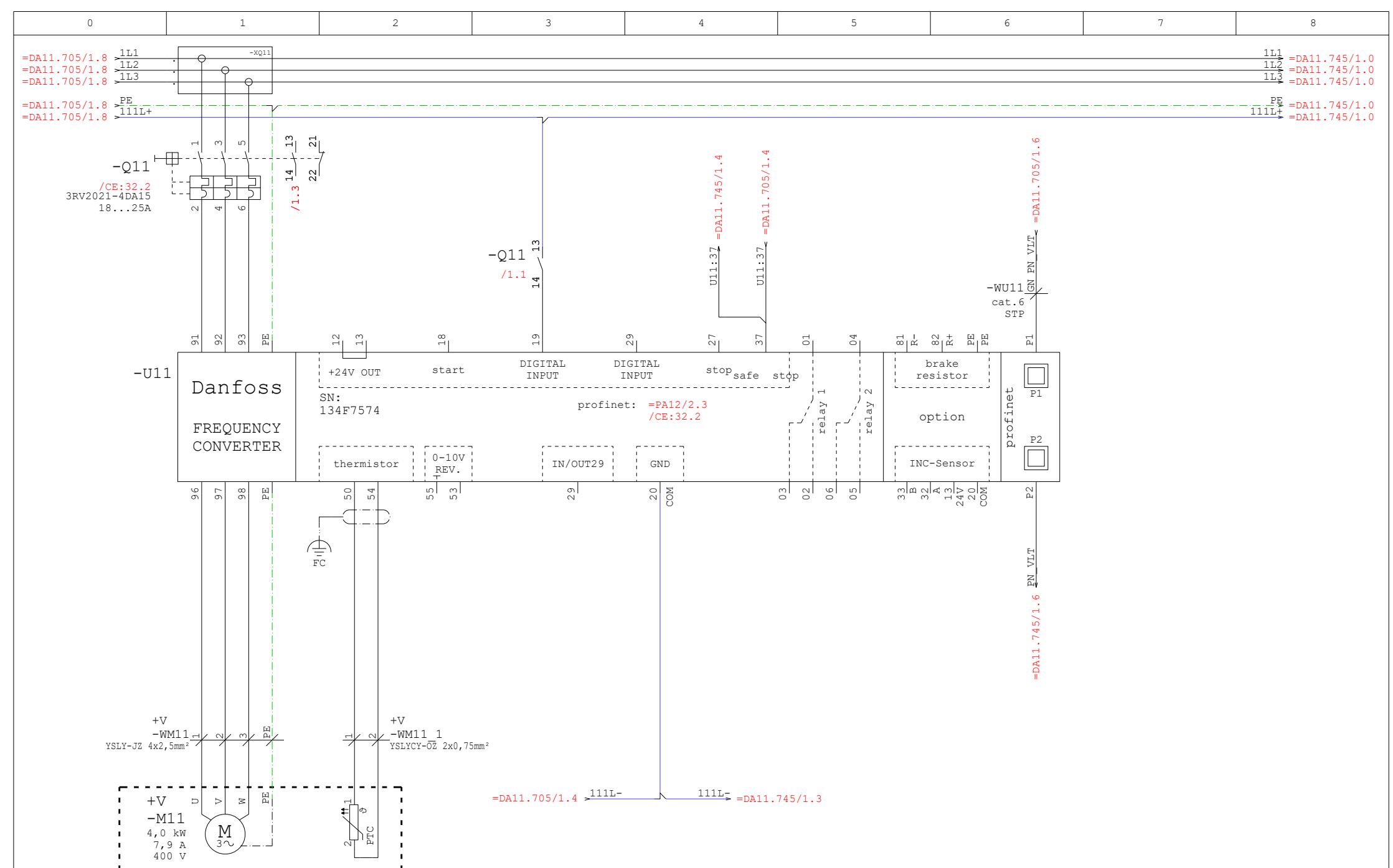
This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!



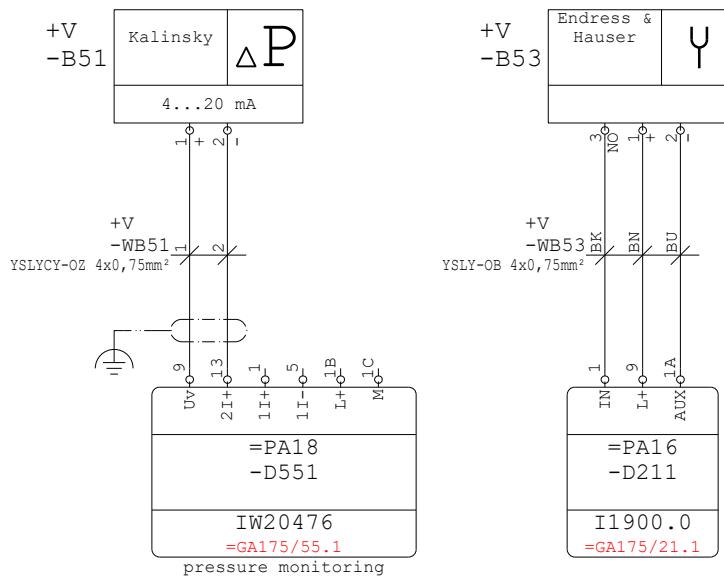
date	2023-11-29	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	raw material - dedusting - crusher sensors	=DA11.720 +GA166 page: 5 next page: 10
This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!					



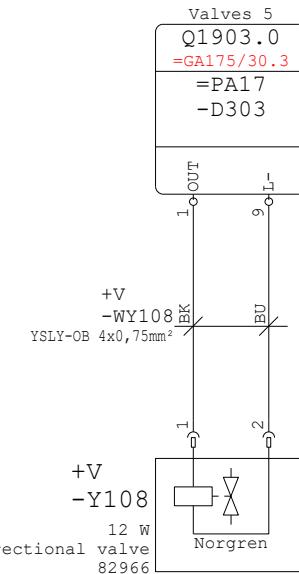
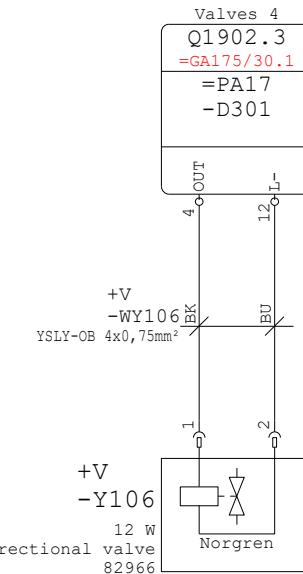
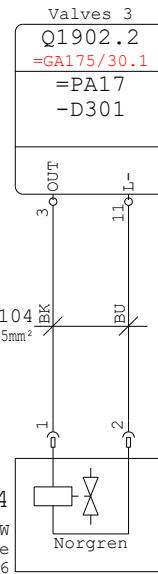
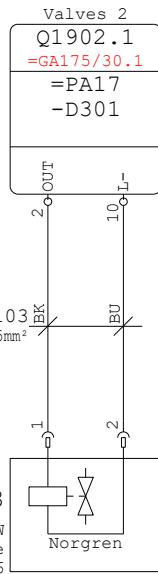
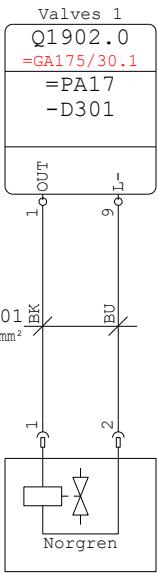
date	2023-11-29	BMG FOS	KNAUF ENGINEERING	raw material - dedusting - crusher valves	=DA11.720
drn by	iA Pohli M	Route du Quai Minéralier			+GA166
check		13270 Fos-Sur-Mer			page: 10
chg.		France			next page: =DA11.725+DA11...



date	2023-11-29	BMG FOS	raw material - dedusting - band task - fan	=DA11.725
drn by	iA Pohli M	Route du Quai Minéralier		+DA112
check		13270 Fos-Sur-Mer	drive	page: 1
chg.		France	E.3598	next page: =DA11.740+GA17...



date	2023-11-29	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	KNAUF ENGINEERING	raw material - dedusting - band task sensors	=DA11.740 +GA175 page: 5 next page: 10
This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!					



date	2023-11-29	BMG FOS
drn by	iA Pohli M	Route du Quai Minéralier
check		13270 Fos-Sur-Mer
chg.		France

KNAUF ENGINEERING

raw material - dedusting - band task

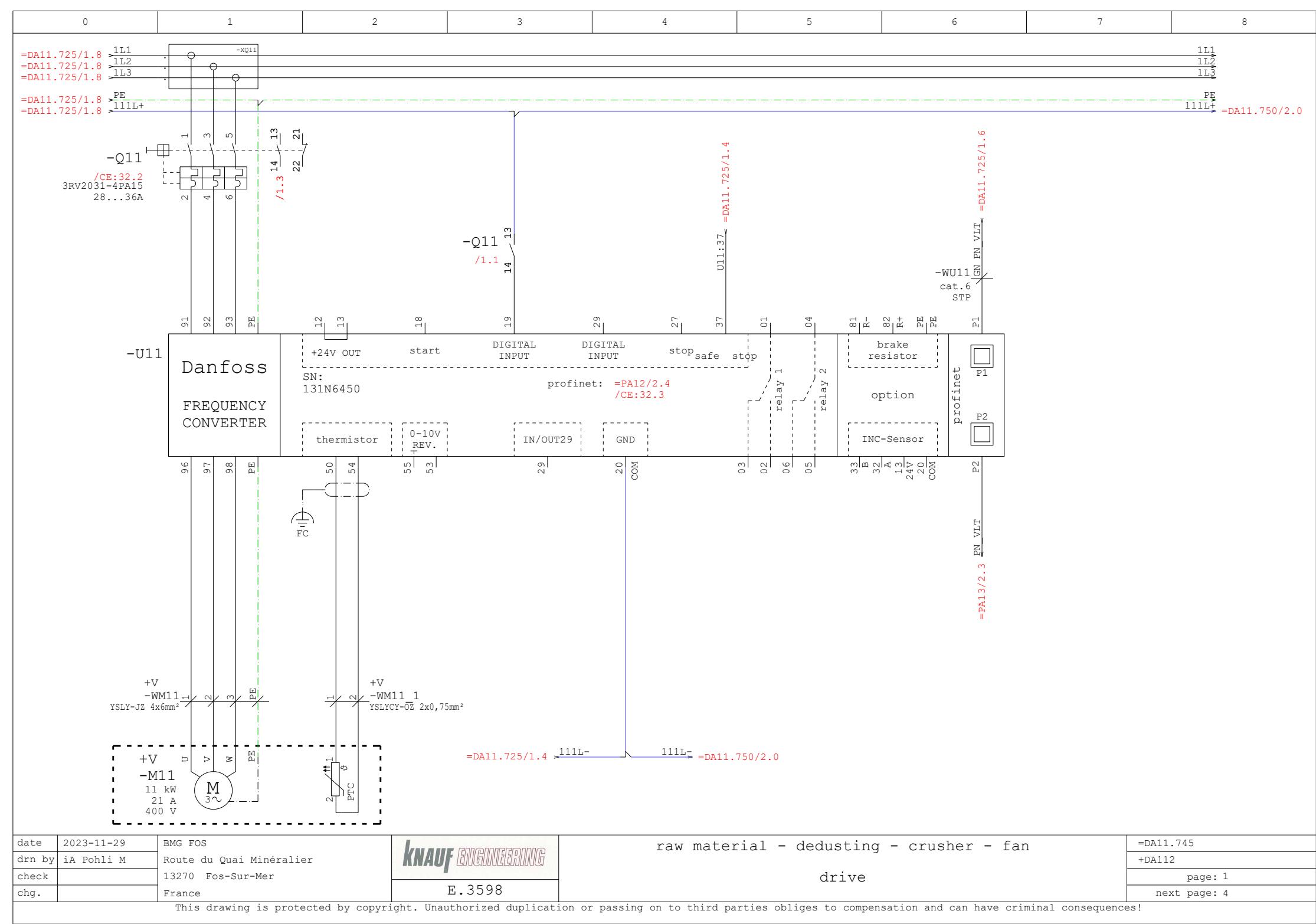
valves

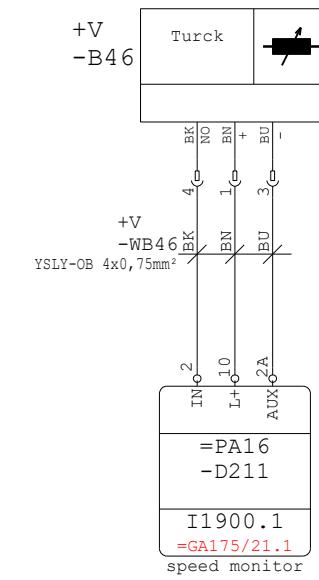
=DA11.740

+GA175

page: 10

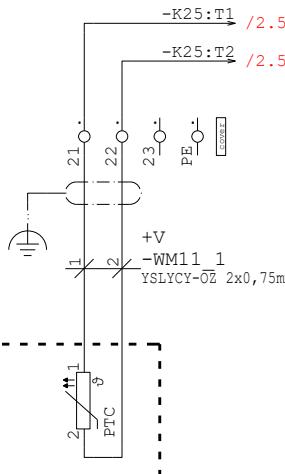
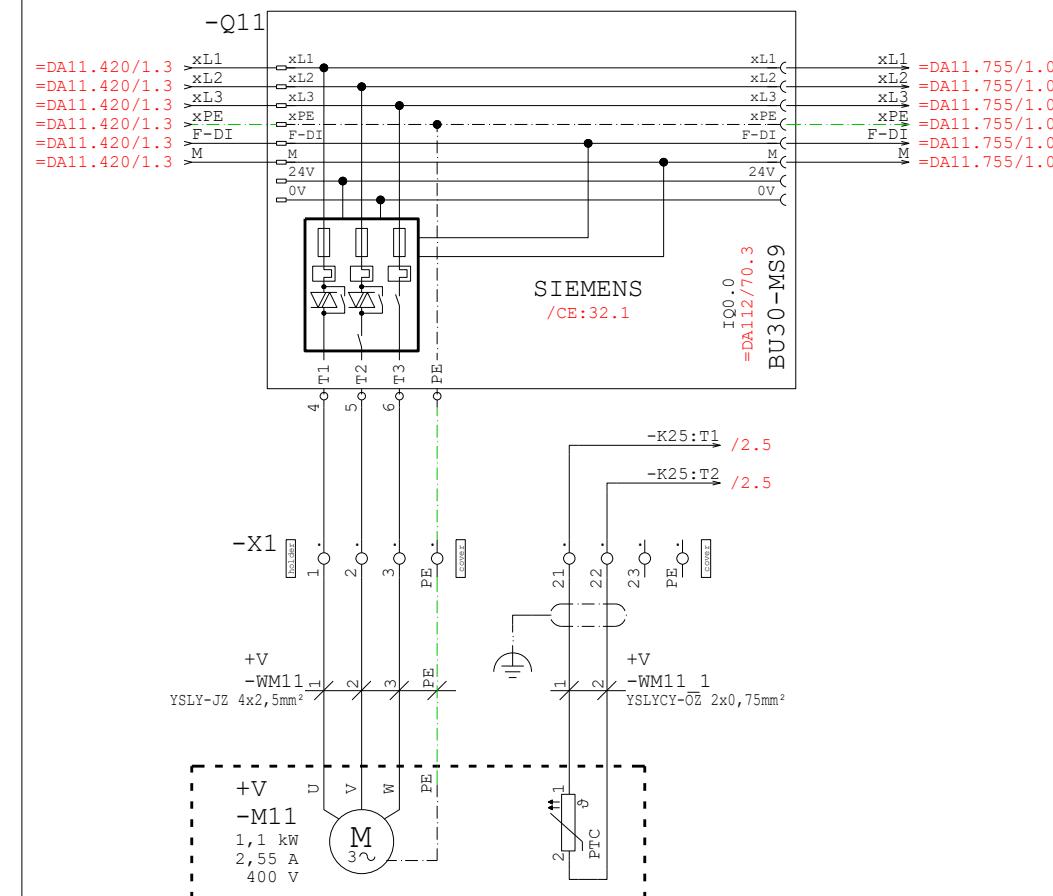
next page: =DA11.745+DA11...



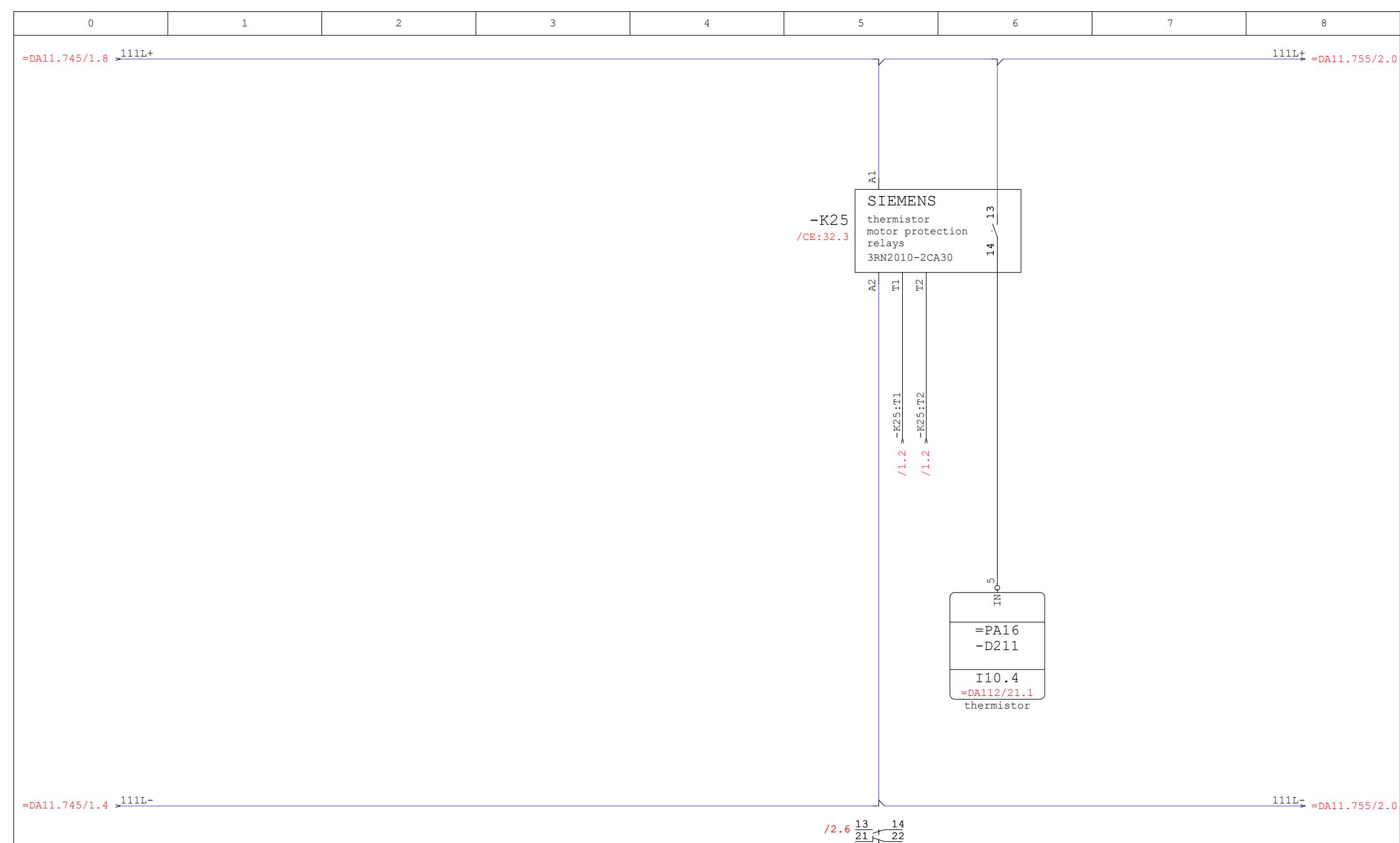


date	2023-11-29	BMG FOS	KNAUF ENGINEERING	raw material - dedusting - crusher - fan sensors	=DA11.745
drn by	iA Pohli M	Route du Quai Minéralier			+GA175
check		13270 Fos-Sur-Mer			page: 4
chg.		France			next page: =DA11.750+DA11...

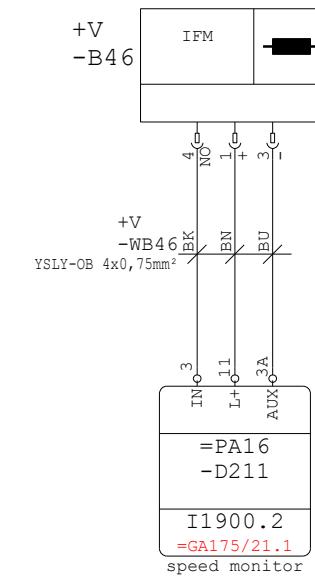
This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!



date	2023-11-29	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	raw material - dedusting - crusher - screw conveyor drive	=DA11.750
drn by	iA Pohli M				+DA112
check					page: 1
chg.					next page: 2

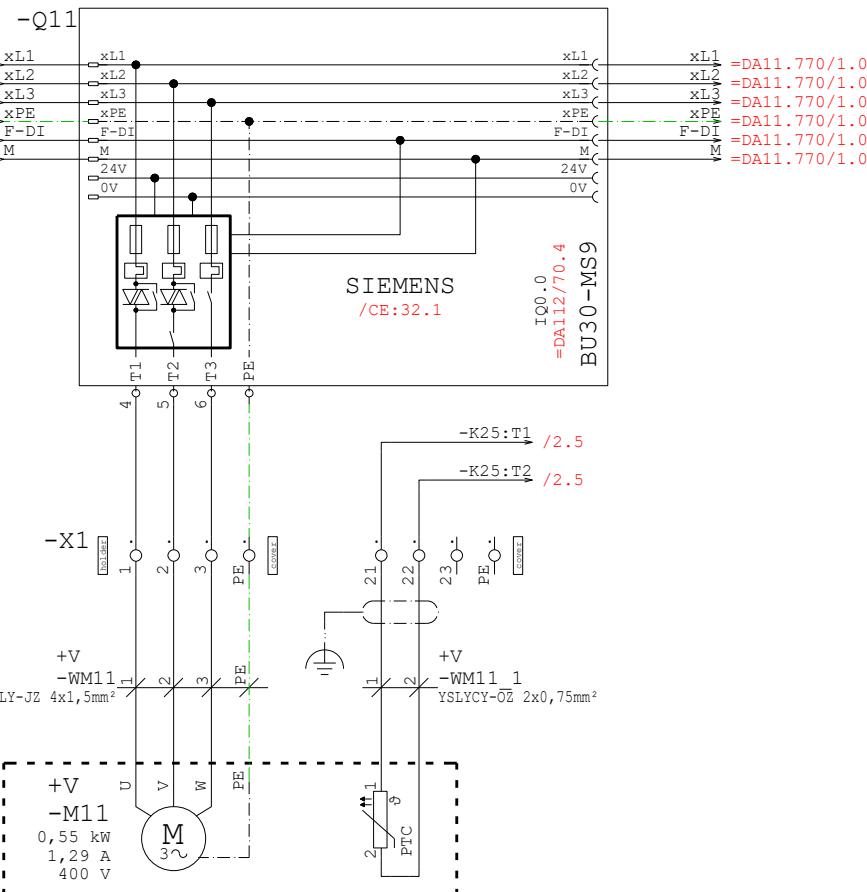


date	2023-11-29	BMG FOS	KNAUF ENGINEERING	raw material - dedusting - crusher - screw conveyor drive - control	=DA11.750
drn by	iA Pohli M	Route du Quai Minéralier			+DA112
check		13270 Fos-Sur-Mer			page: 2
chg.		France			next page: 4
This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!					



date	2023-11-29	BMG FOS	KNAUF ENGINEERING	raw material - dedusting - crusher - screw conveyor	=DA11.750
drn by	iA Pohli M	Route du Quai Minéralier			+GA175
check		13270 Fos-Sur-Mer			page: 4
chg.		France		E.3598	next page: =DA11.755+DA11...

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!



raw material - dedusting - crusher - rotary valve

drive

=DA11.755

+DA112

page: 1

next page: 2

knauf ENGINEERING

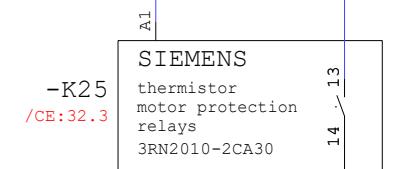
E.3598

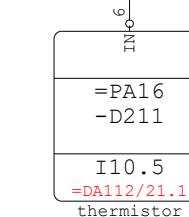
date	2023-11-29	BMG FOS		
drn by	iA Pohli M	Route du Quai Minéralier		
check		13270 Fos-Sur-Mer		
chg.		France	E.3598	

0	1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---	---

=DA11.750/2.8 >111L+

111L+ =DA11.770/2.0


 -K25
/CE:32.3

 A1
A2
T1
T2
-K25:T1
/1.2
-K25:T2
/1.2


6

IN

 =PA16
-D211

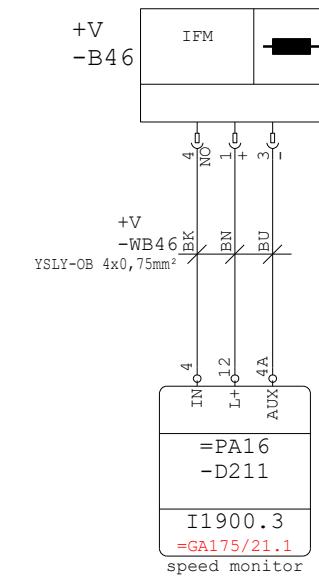
 /2.6 13 14
21 22

=DA11.750/2.8 >111L-

111L- =DA11.770/2.0

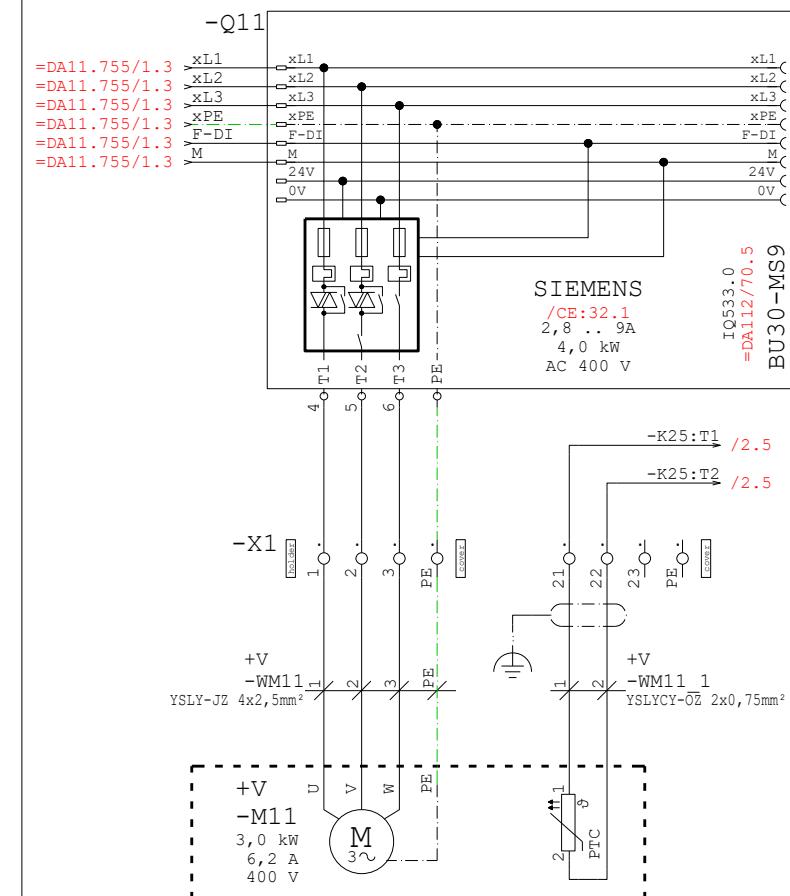
date	2023-11-29	BMG FOS	KNAUF ENGINEERING raw material - dedusting - crusher - rotary valve drive - control E.3598	=DA11.755
drn by	iA Pohli M	Route du Quai Minéralier		+DA112
check		13270 Fos-Sur-Mer		page: 2
chg.		France		next page: 4

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!



date	2023-11-29	BMG FOS	KNAUF ENGINEERING	raw material - dedusting - crusher - rotary valve sensors	=DA11.755
drn by	iA Pohli M	Route du Quai Minéralier			+GA175
check		13270 Fos-Sur-Mer			page: 4
chg.		France			next page: =DA11.770+DA11...

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!

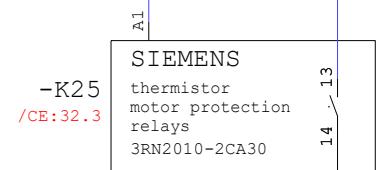


date	2023-11-13	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	raw material - dedusting - crusher - trog screw conveyor drive	=DA11.770
drn by	iA Pohli M				+DA112
check					page: 1
chg.					next page: 2

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!

0	1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---	---

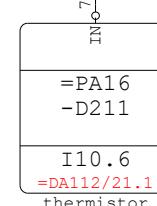
=DA11.755/2.8 111L+ 111L+



-K25
/CE:32.3

A1
A2
T1
T2
14
13

-K25:T1
/1.2
-K25:T2
/1.2



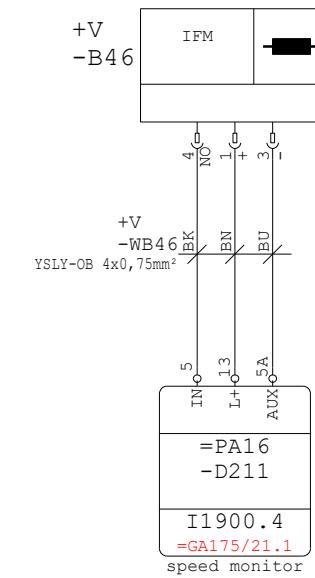
7
IN

=DA11.755/2.8 111L- 111L-

date	2023-11-29	BMG FOS	raw material - dedusting - crusher - trog screw conveyor drive - control	=DA11.770
drn by	iA Pohli M	Route du Quai Minéralier 13270 Fos-Sur-Mer France		+DA112
check				page: 2
chg.		E.3598		next page: 4

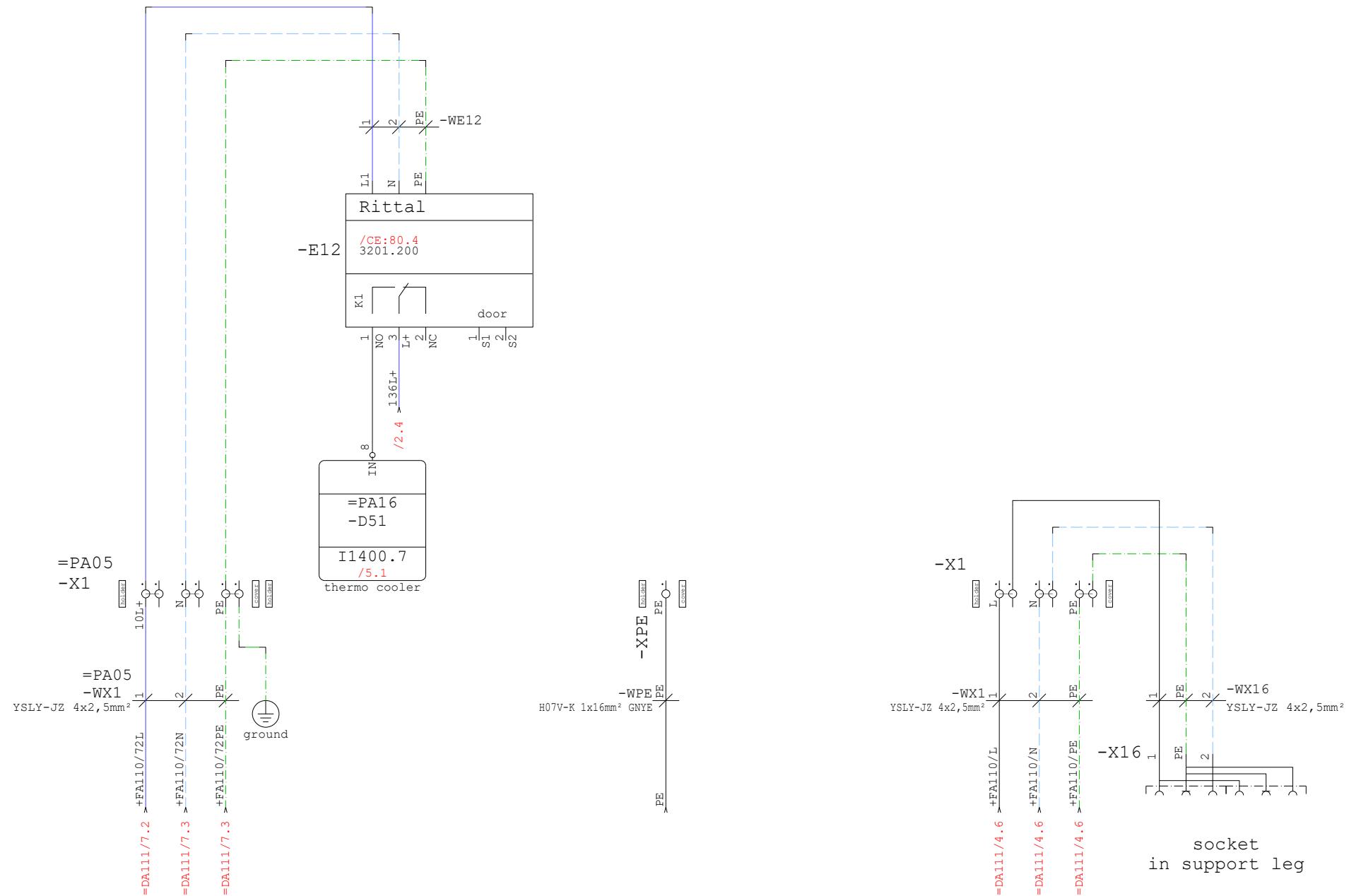
This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!

knauf ENGINEERING

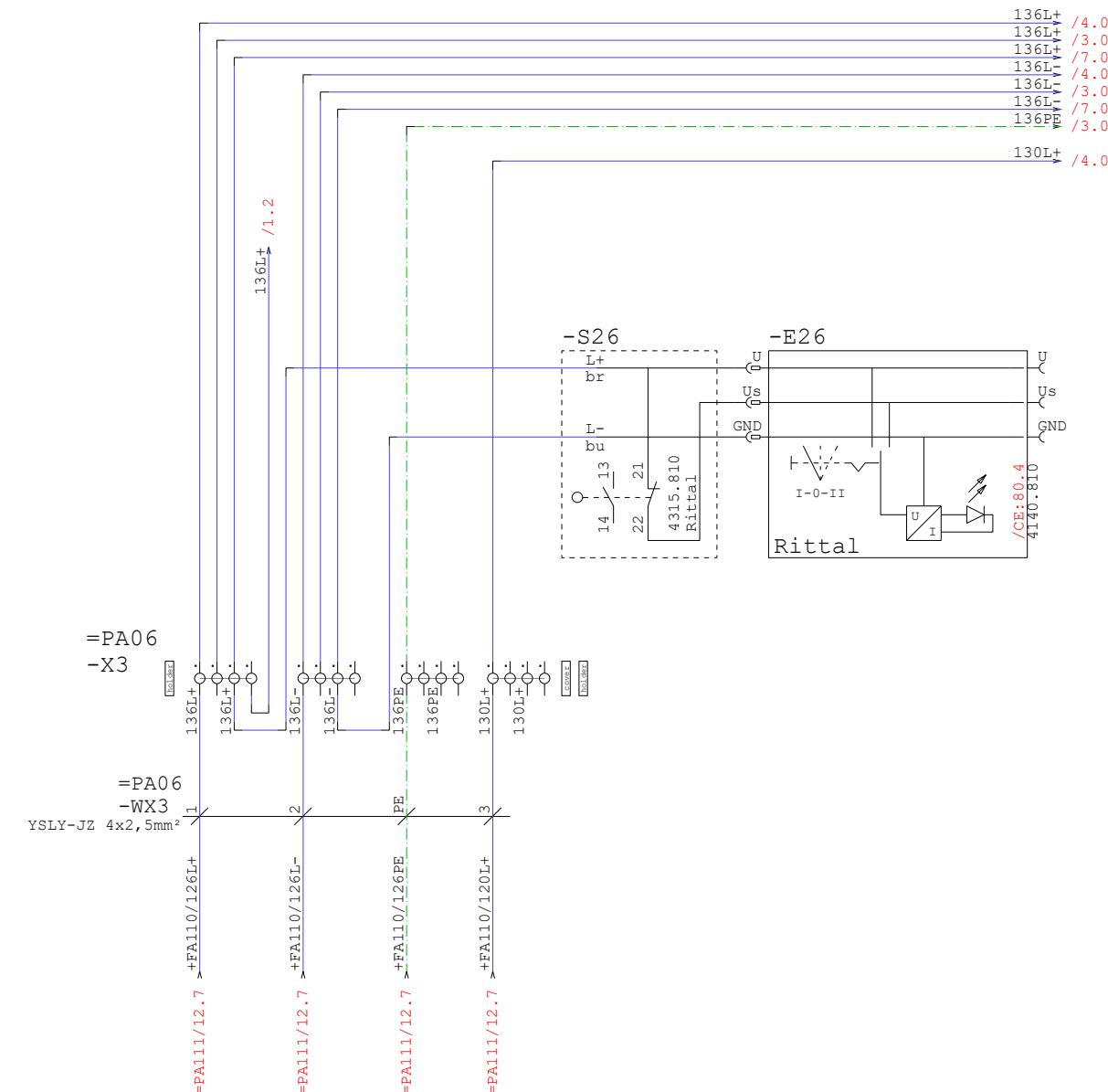


date	2023-11-29	BMG FOS	KNAUF ENGINEERING	raw material - dedusting - crusher - trog screw conveyor sensors	=DA11.770
drn by	iA Pohli M	Route du Quai Minéralier			+GA175
check		13270 Fos-Sur-Mer			page: 4
chg.		France			next page: =FA110+FA110/1

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!



date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France		control panel	=FA110
drn by	iA Pohli M				+FA110
check				power supply - AC 230/400 V	page: 1
chg.					next page: 2



date	2019-03-20	BMG FOS
------	------------	---------

drn by	iA Pohli M	E.3598
check		
chg.		

knauf ENGINEERING

control panel

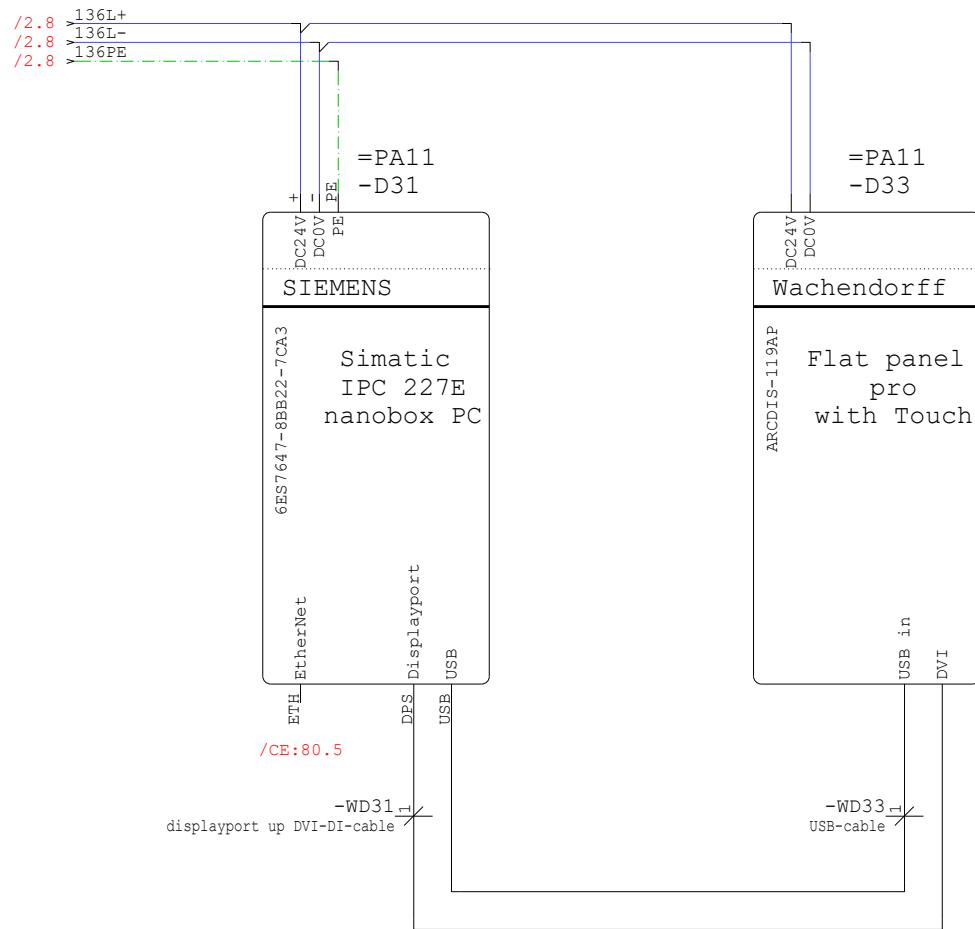
power supply

=FA110

+FA110

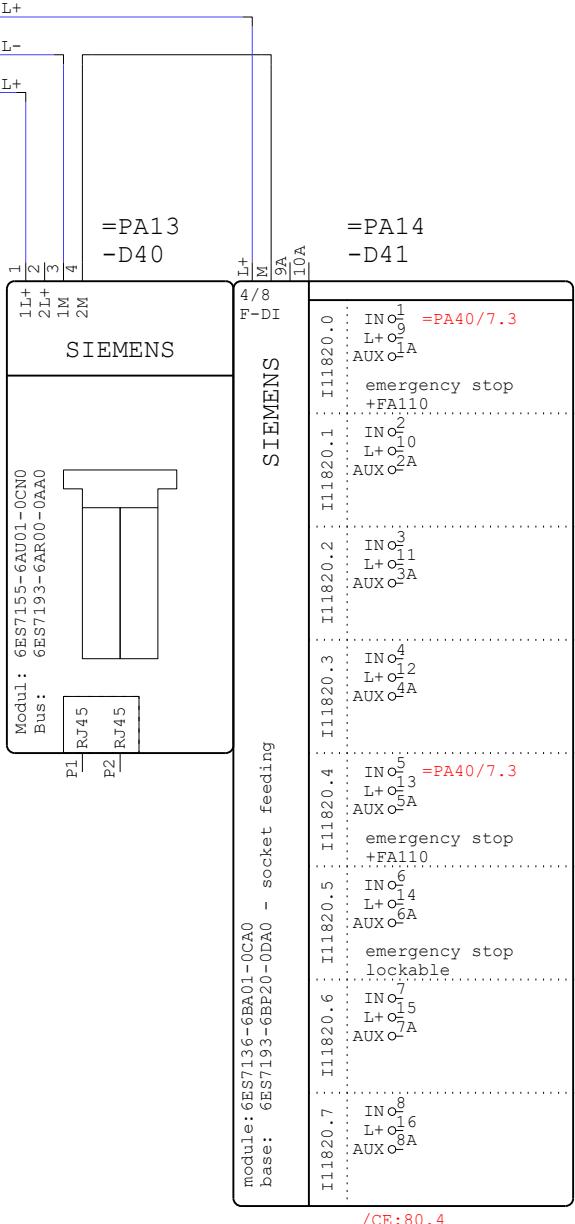
page: 2

next page: 3



date	2019-03-20	BMG FOS E.3598	knauf ENGINEERING	control panel PC / Panel	=FA110
drn by	iA Pohli M				+FA110
check					page: 3
chg.					next page: 4

0	1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---	---

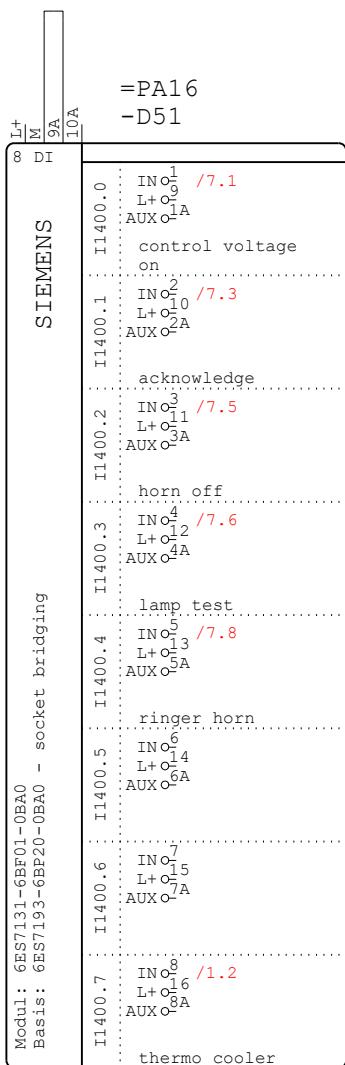


control panel
PLC - interface module + safety

=FA110
+FA110
page: 4
next page: 5

date	2019-03-20	BMG FOS E.3598
drn by	iA Pohli M	
check		
chg.		

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!



date	2019-03-20	BMG FOS E.3598
drn by	iA Pohli M	
check		
chg.		



control panel

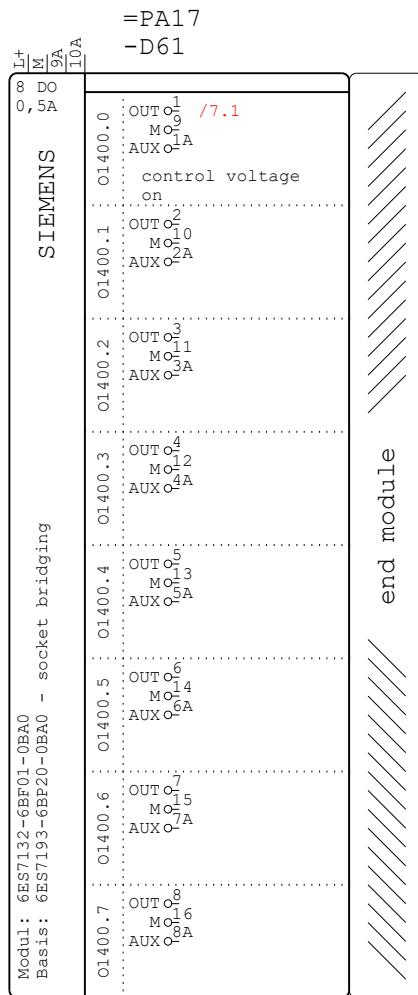
PLC - digital inputs

=FA110

+FA110

page: 5

next page: 6



date	2019-03-20	BMG FOS E.3598
drn by	iA Pohli M	
check		
chg.		



control panel

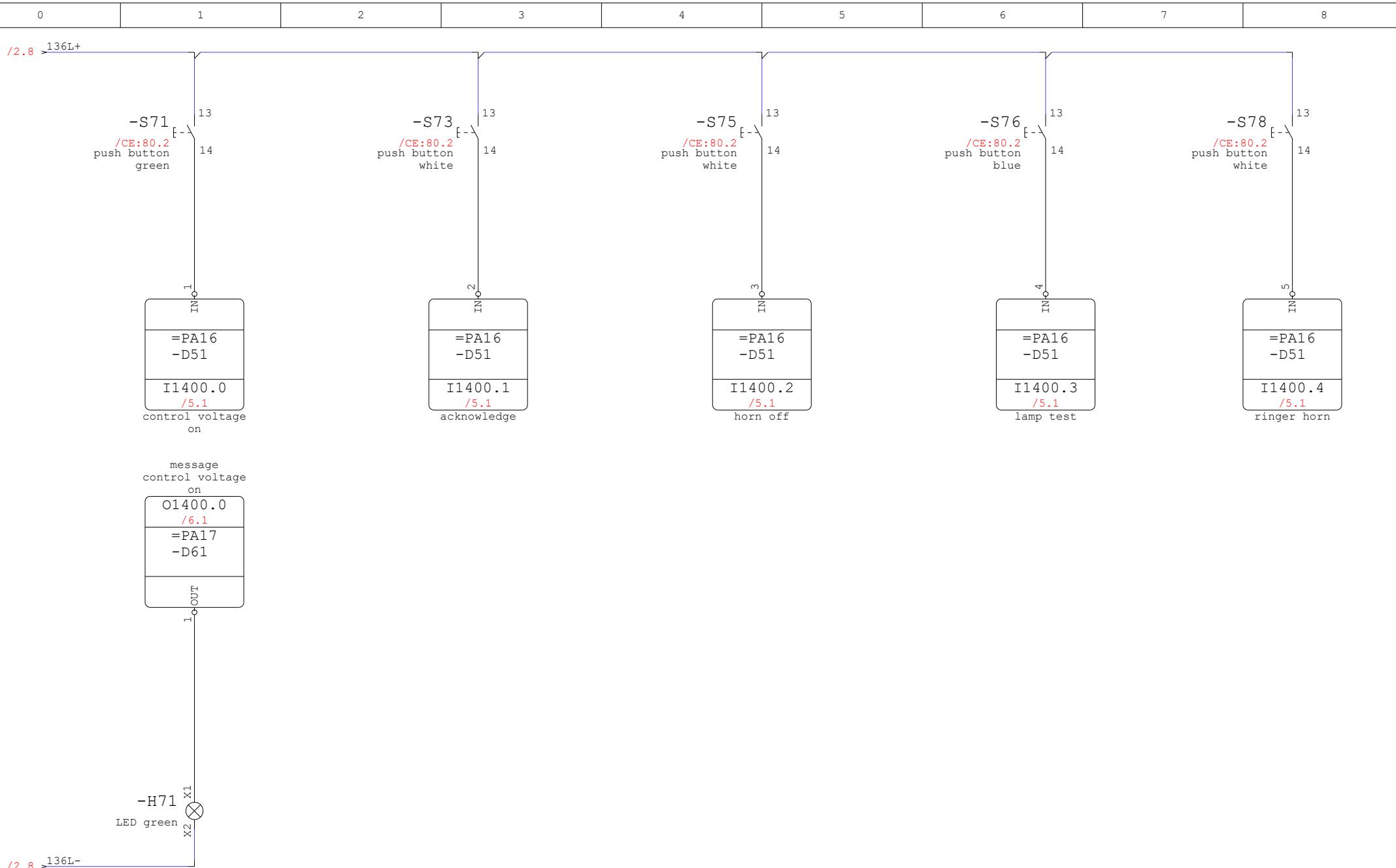
PLC - digital outputs

=FA110

+FA110

page: 6

next page: 7

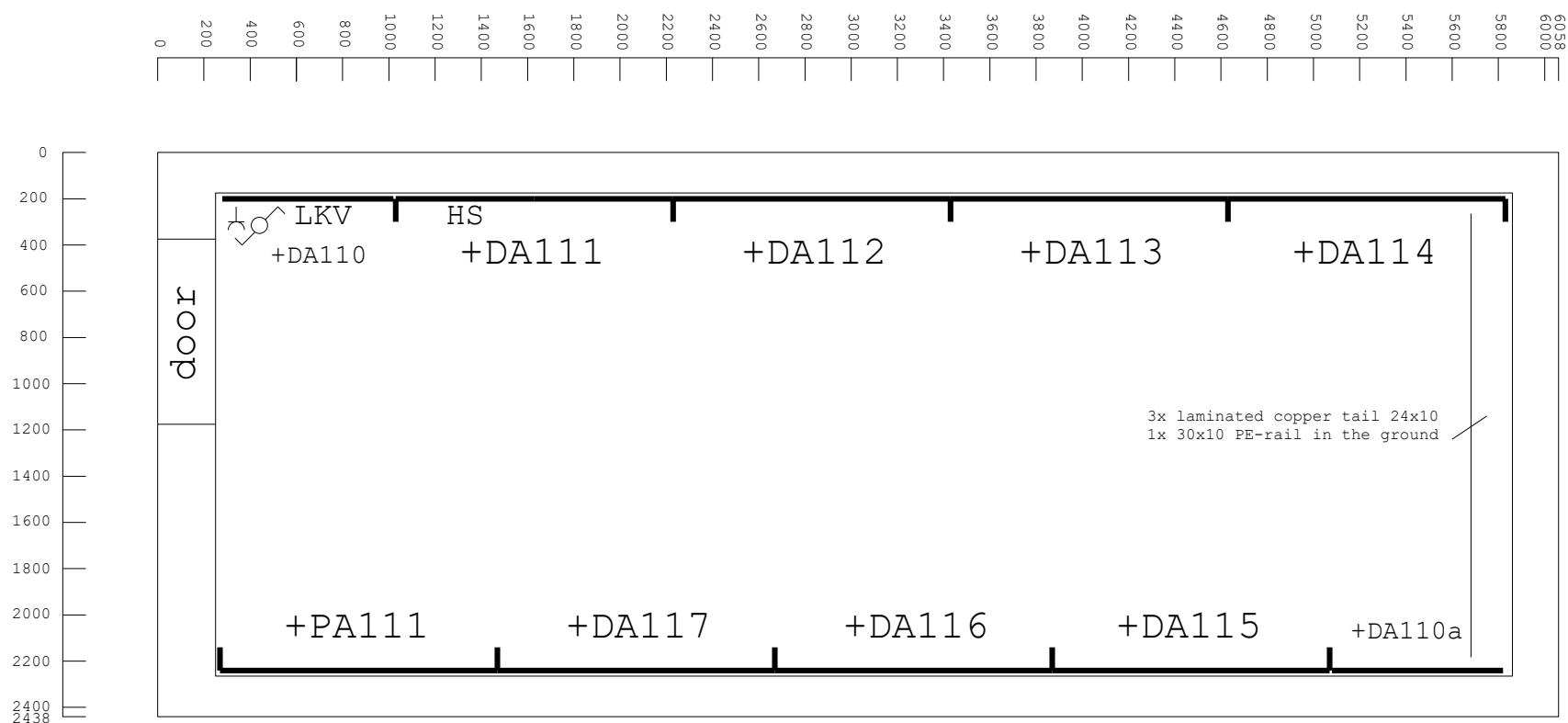


date	2019-03-20	BMG FOS	 control panel	operation	=FA110
drn by	iA Pohli M	E.3598			+FA110
check					page: 7
chg.					next page:

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!

0 1 2 3 4 5 6 7 8

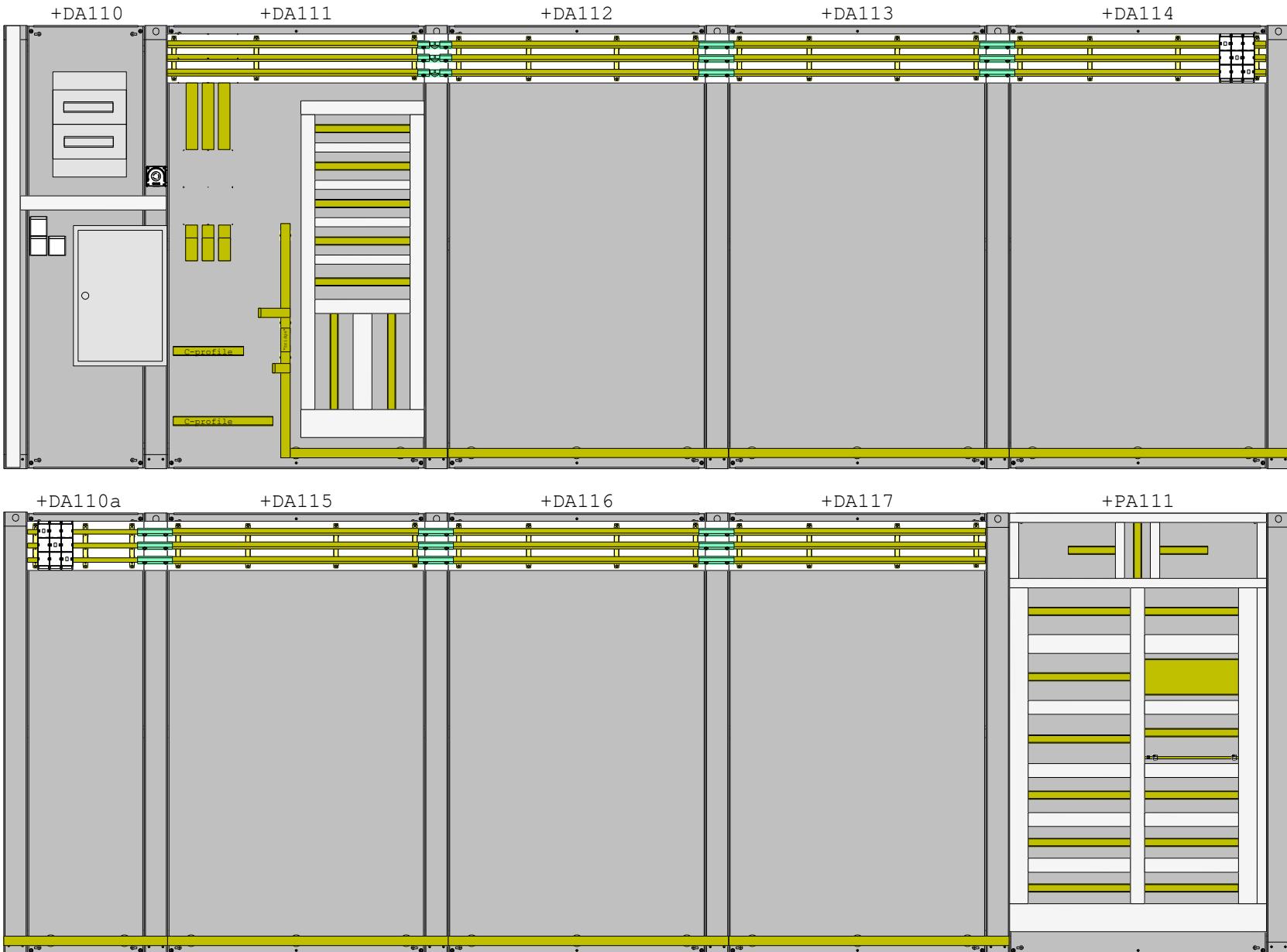
gypsum plant - container 1



Maßstab 1:20 (nur in WSCAD)

date	2023-10-27	BMG FOS	=C2
drn by	iA Pohli M	Route du Quai Minéralier	+C2
check		13270 Fos-Sur-Mer	page: 28
		France	next page: 29
Übersicht Container Rohstein			
This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!			

gypsum plant - container 1



date 2023-10-27

BMG FOS
drn by iA Pohli M
Route du Quai Minéralier
check 13270 Fos-Sur-Mer
France

knauf ENGINEERING
E.3598

Übersicht Montageplatten Rohstein

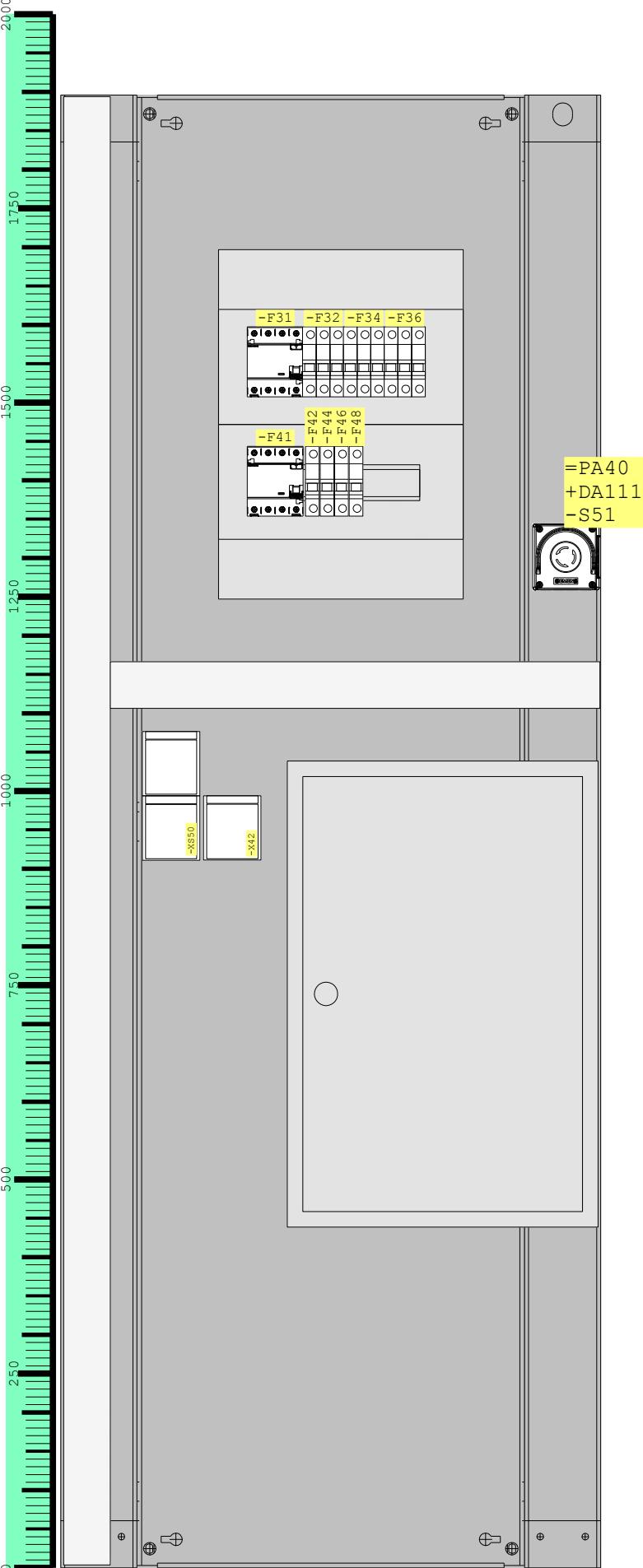
=C2

+C2

page: 29

next page: 30

Maßstab 1 : 8



0	1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---	---

date	2023-10-27	BMG FOS
drn by	IA Pohli M	Route du Quai Mineralier
check		13270 Fos-Sur-Mer France

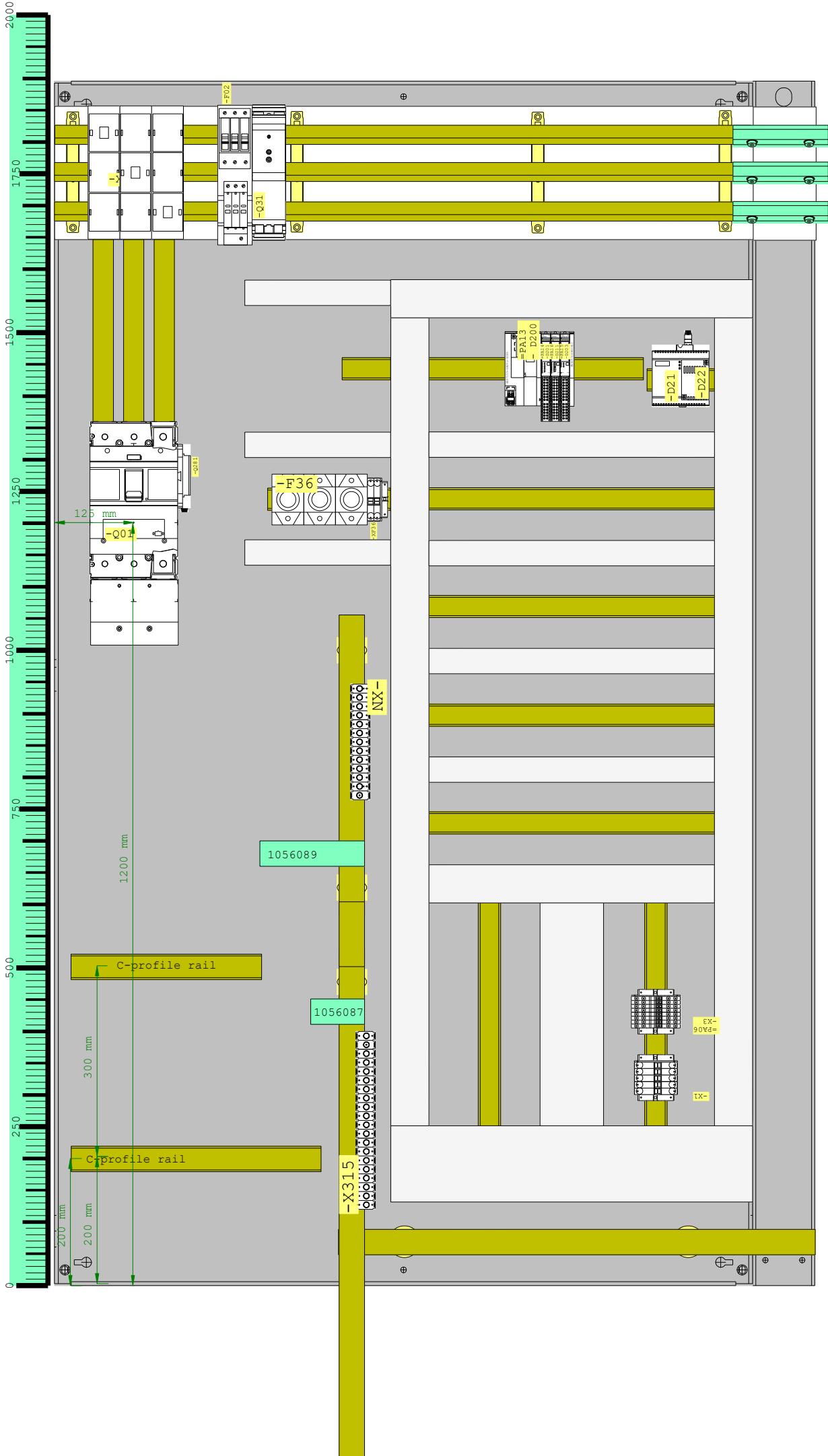
KNAUF ENGINEERING
E.3598

Montageplatte +DA110

=DA110
+DA110

page: 30
next page: 31

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!



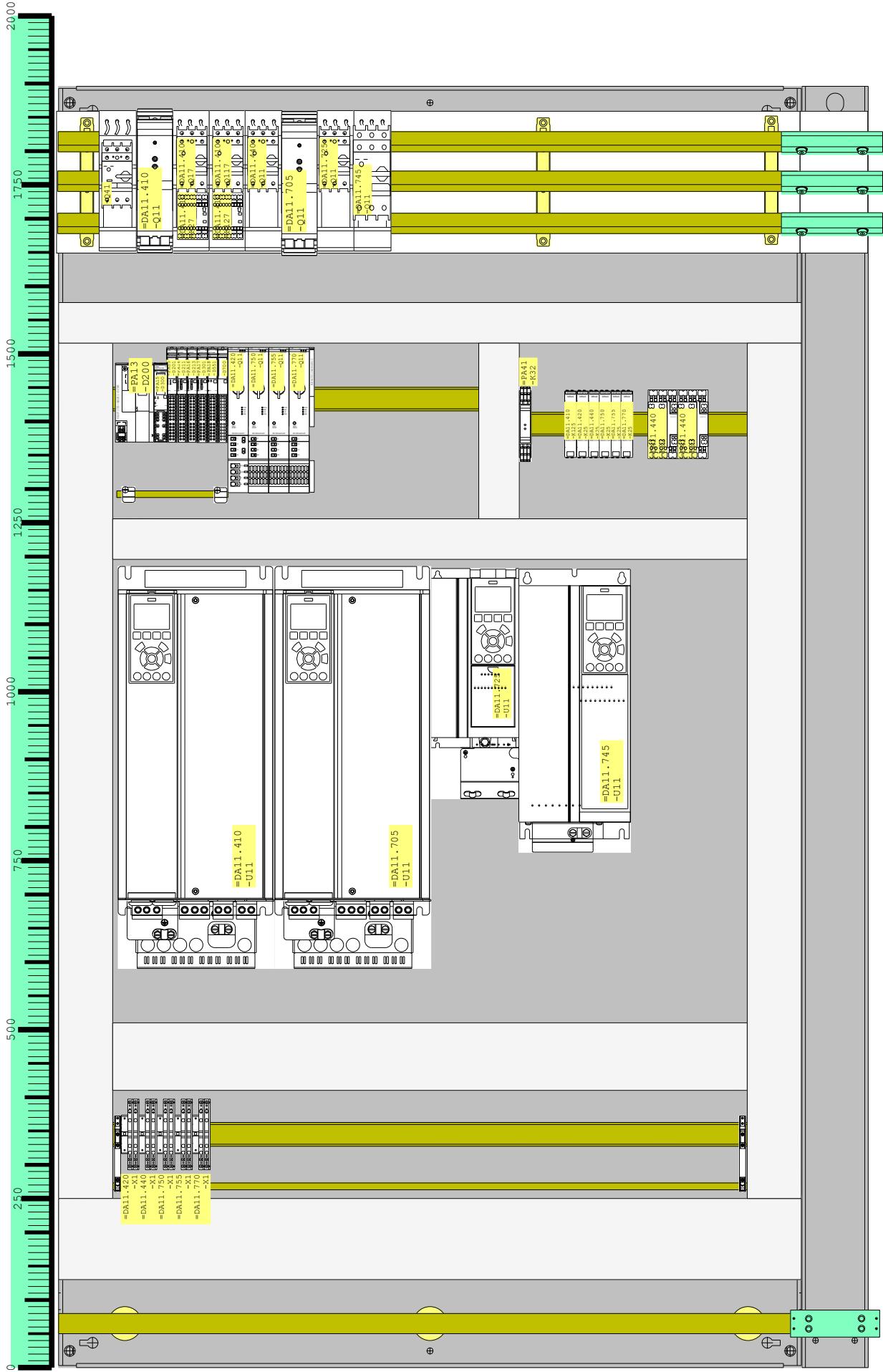
date	2023-11-22	BMG FOS
ddr by	IA Pohl M	Route du Quai Minéralier
check		13270 Fos-Sur-Mer

knauf ENGINEERING

Montagēn] attē +DA111

=DA111
+DA111

□-3500 This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!



Maßstab 1 : 8

date	2023-11-22	BMG FOS
drn by	IA Pohli M	Route du
check		13270 France

knauf ENGINEERING

E 3598

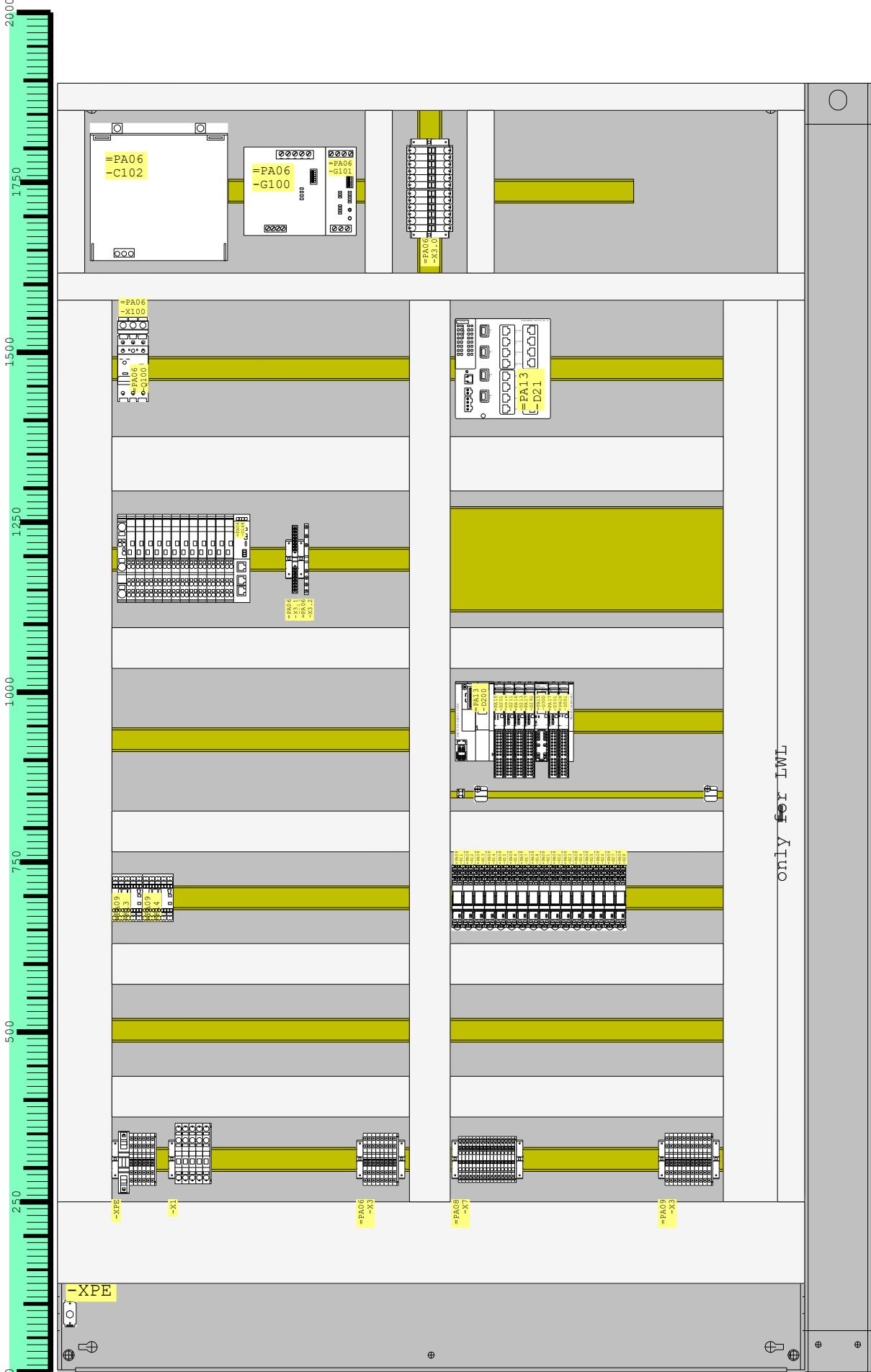
Montageplatte +DA112

+DA112 page: 32 next page: 33

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!

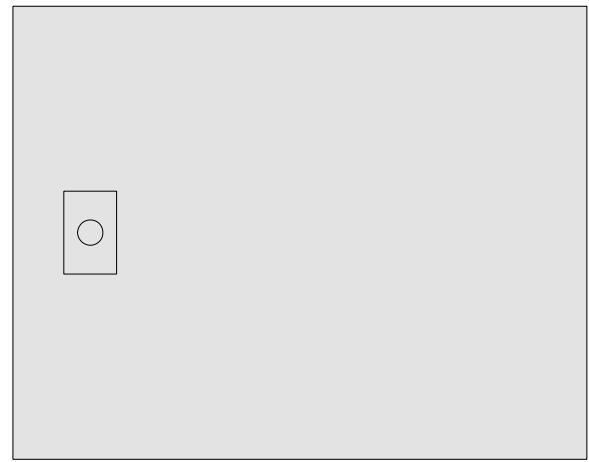
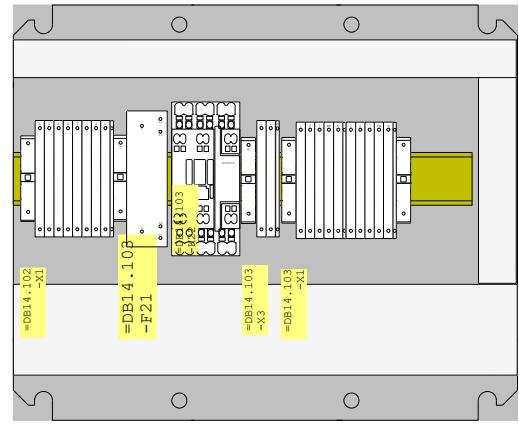
Maßstab 1 : 8

date	2023-11-22	BMG FCS	knauf ENGINEERING	=PA111
drn by	ia Pohli M	Route du Quai Mineraiier		+PA111
check		13270 Fos-Sur-Mer		page: 34
		France		next page: 39
This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!				



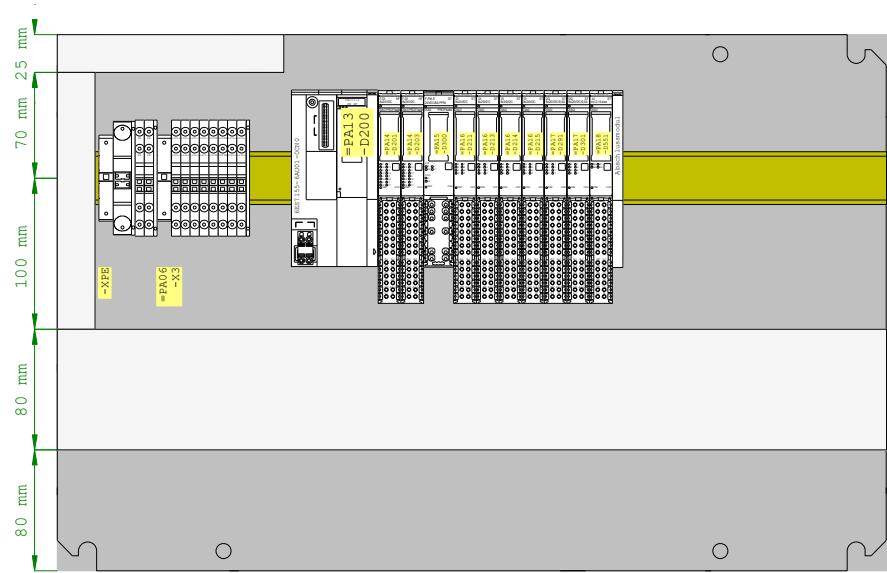
0 1 2 3 4 5 6 7 8

0	1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---	---



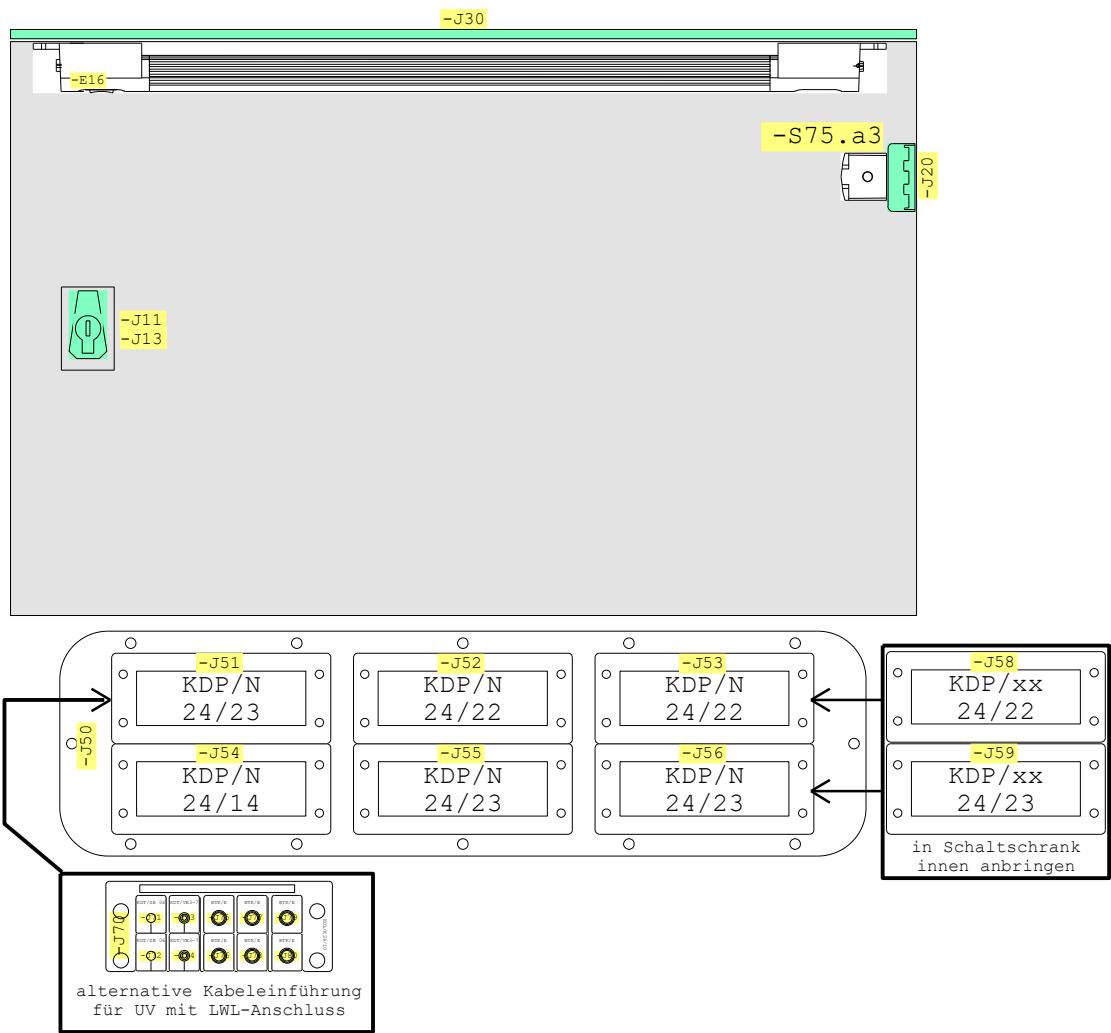
date	2023-05-03	BMG FOS	KNAUF ENGINEERING	=
drn by	IA Pohli M	Route du Quai Mineralier		+GB111
check		13270 Fos-Sur-Mer		page: 39
		France		next page: 40

This drawing is protected by copyright. Unauthorized duplication or passing on to third parties obliges to compensation and can have criminal consequences!



Maßstab 1 : 5

date	2023-11-29	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	Unterverteiler +GA160	=GA160
drn by	iA Pohli M				+GA160
check			E.3598		page: 75
					next page: 75.a



Maßstab 1:5

Aufbau Unterverteiler +GA160

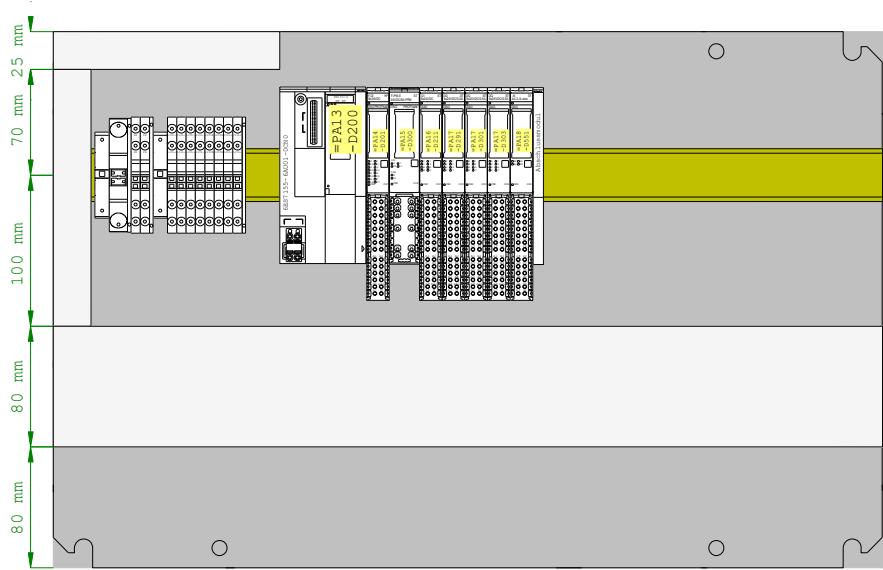
=GA160

+GA160

page: 75.a

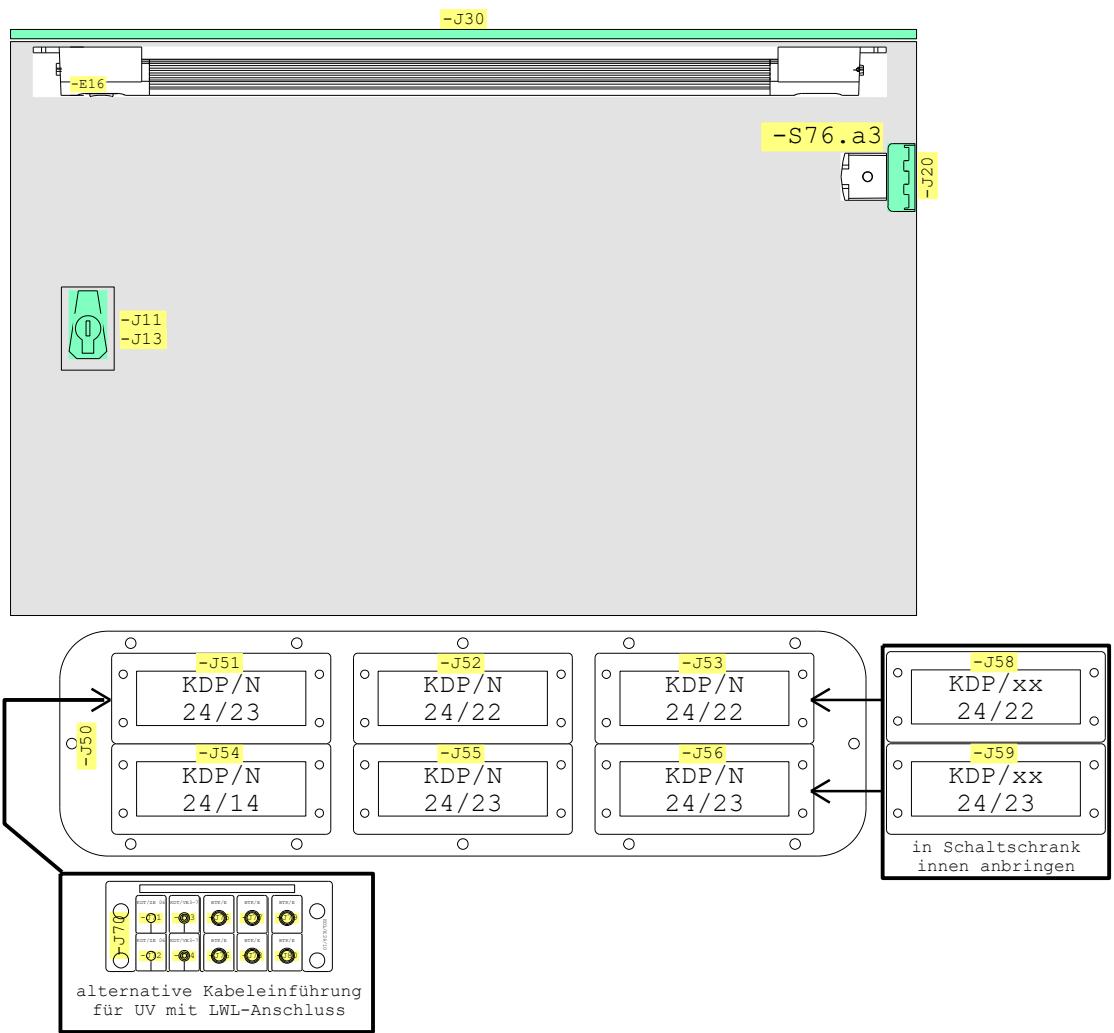
next page: 76

date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	
drn by	iA Pohli M			=GA160
check				+GA160
			E.3598	page: 75.a



Maßstab 1 : 5

date	2023-11-13	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	Unterverteiler +GA165	=GA165
drn by	iA Pohli M				+GA165
check			E.3598		page: 76 next page: 76.a



Maßstab 1:5

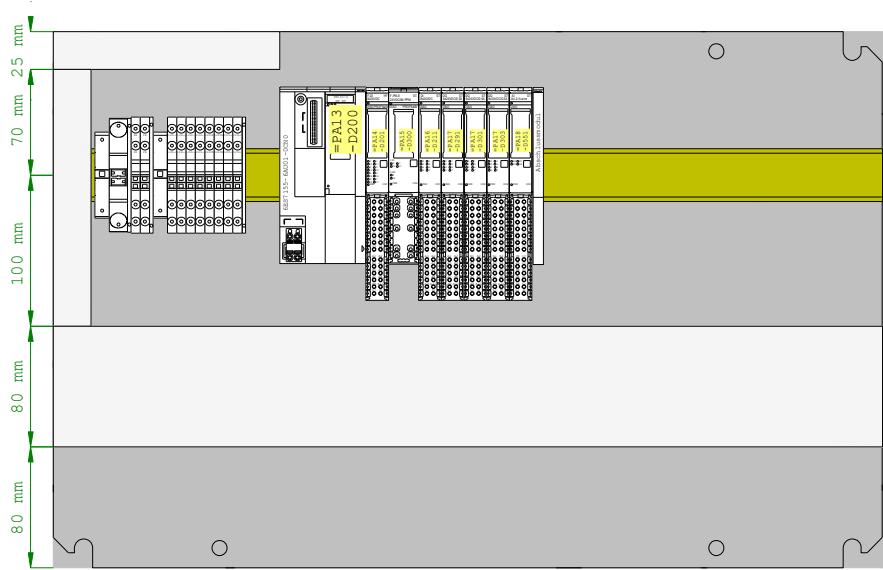
Aufbau Unterverteiler +GA165

=GA165

+GA165

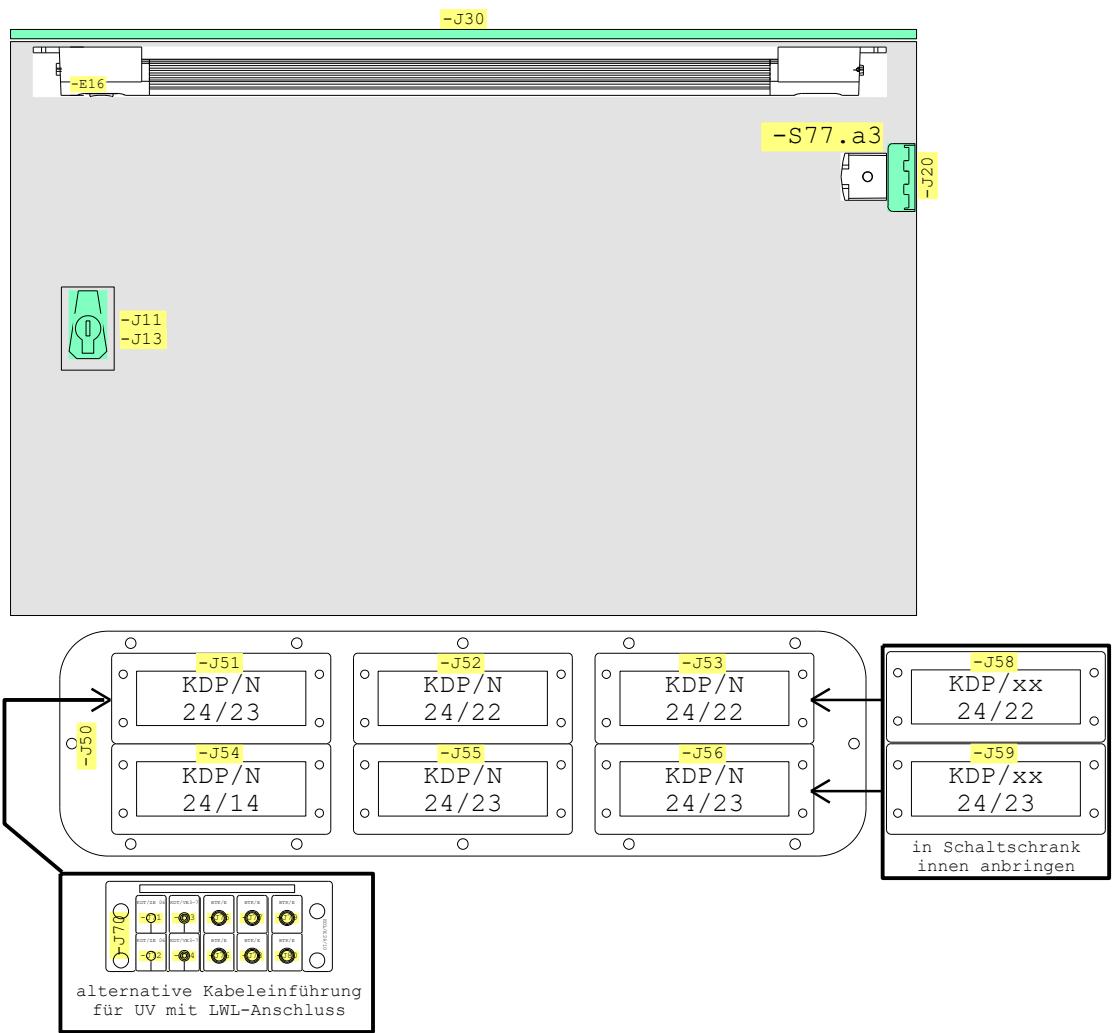
page: 76.a

next page: 77



Maßstab 1 : 5

date	2023-11-13	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	Unterverteiler +GA166	=GA166
drn by	iA Pohli M				+GA166
check			E.3598		page: 77
					next page: 77.a



Maßstab 1:5

Aufbau Unterverteiler +GA166

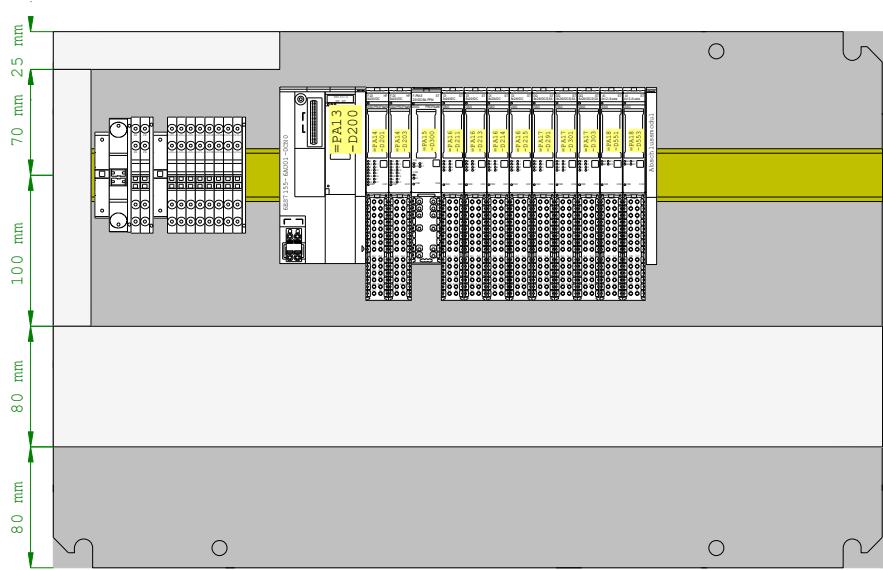
=GA166

+GA166

page: 77.a

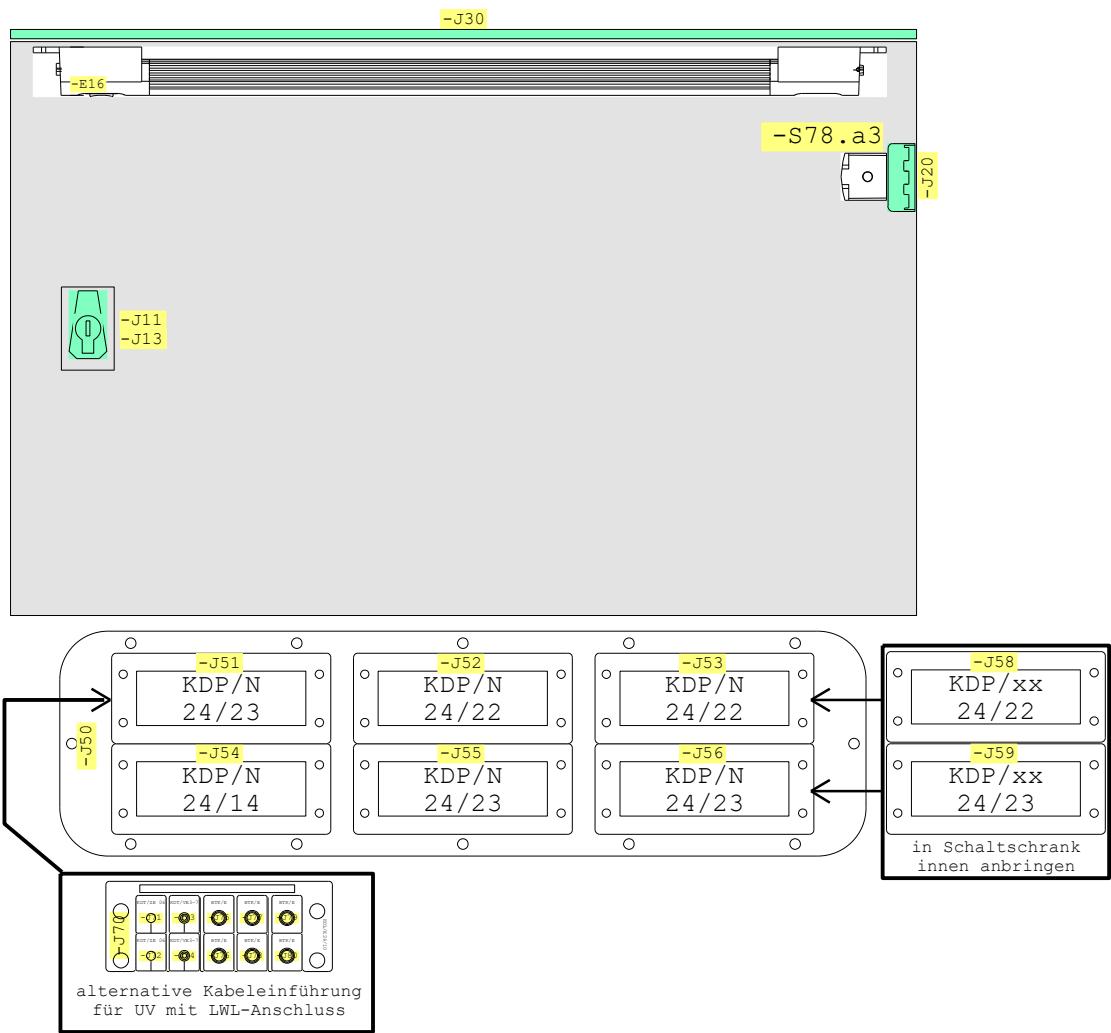
next page: 78

date	2023-10-27	
drn by	iA Pohli M	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France
check		knauf ENGINEERING E.3598
		Aufbau Unterverteiler +GA166



Maßstab 1 : 5

date	2023-11-13	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	Unterverteiler +GA170	=GA170
drn by	iA Pohli M				+GA170
check			E.3598		page: 78 next page: 78.a



Maßstab 1:5

Aufbau Unterverteiler +GA170

=GA170

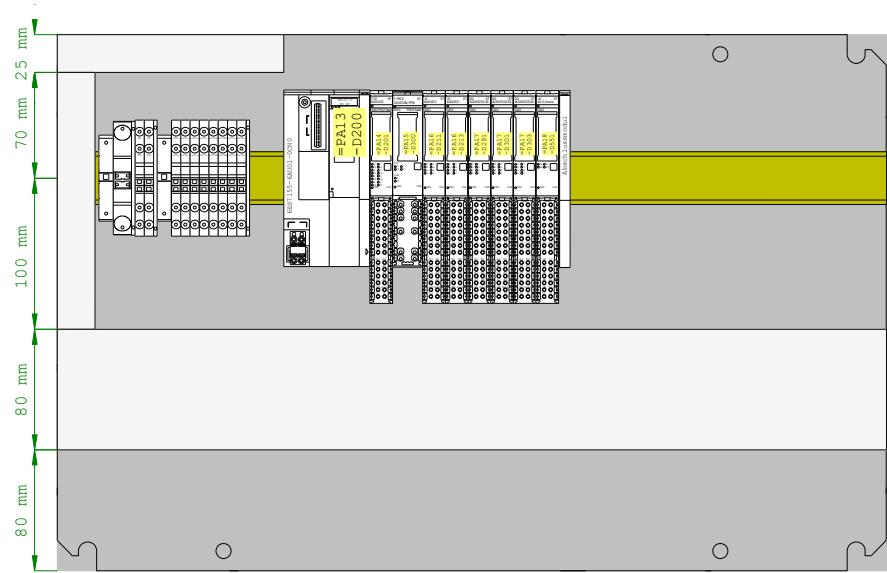
+GA170

page: 78.a

next page: 79

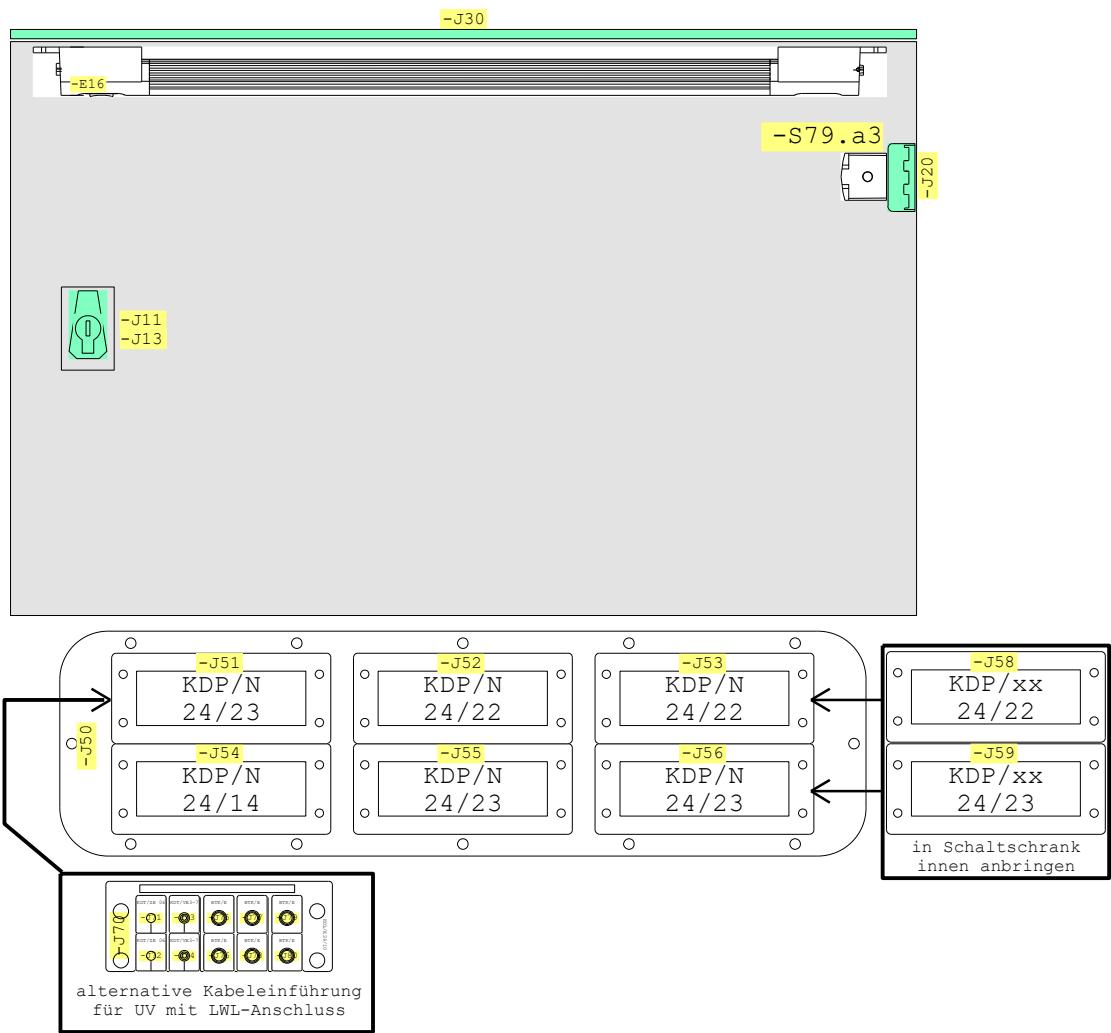
date	2023-10-27	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France
drn by	iA Pohli M	
check		E.3598

knauf ENGINEERING



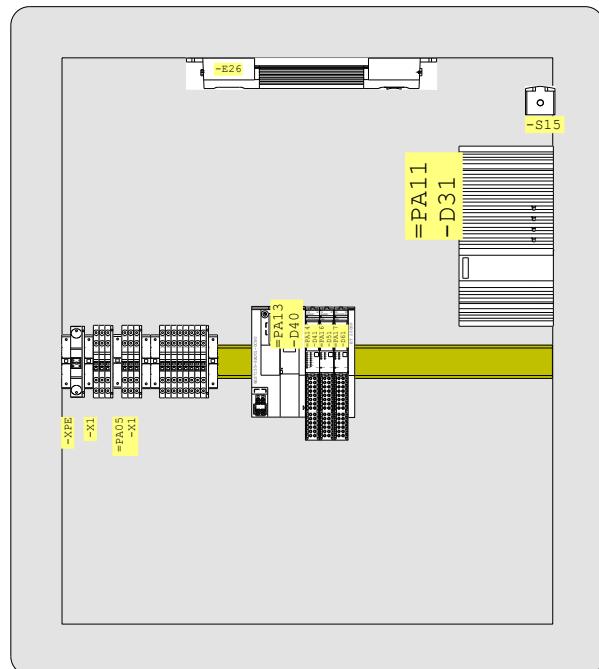
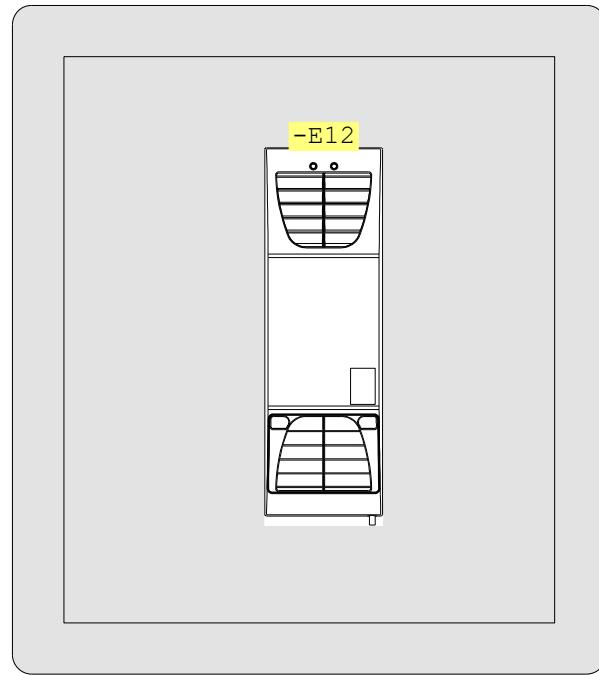
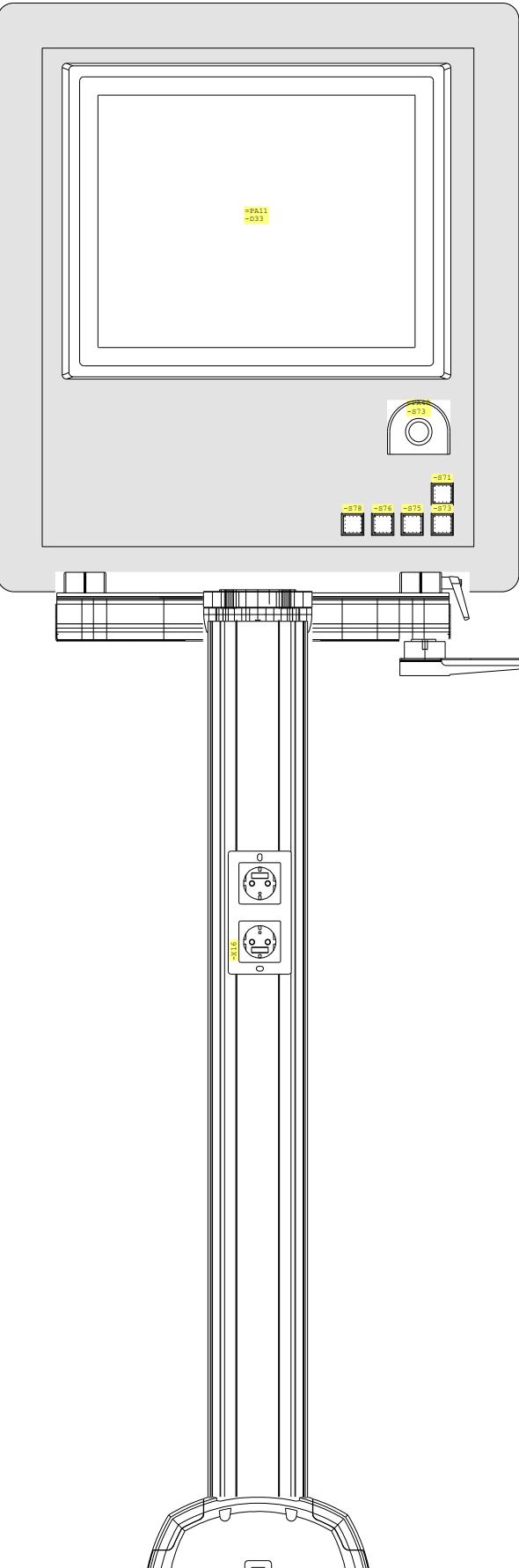
Maßstab 1 : 5

date	2023-11-13	BMG FOS Route du Quai Minéralier 13270 Fos-Sur-Mer France	knauf ENGINEERING	Unterverteiler +GA175	=GA175
drn by	iA Pohli M				+GA175
check			E.3598		page: 79 next page: 79.a



Maßstab 1:5

date	2023-10-27	BMG FOS		=GA175
drn by	iA Pohli M	Route du Quai Minéralier		+GA175
check		13270 Fos-Sur-Mer		page: 79.a
		France	E.3598	next page: 80



Date	2022-07-27	BMG FCS	
Drn By	ia Pohl M	E. 3598	
Check			
chg.			
		=FA110 +FA110	
		Page: 80	
		next page: 98	

knauf ENGINEERING

This diagram is protected by copyright law. The duplication and/or distribution of this diagram is only allowed with permission from KNAUF

control panel +FA100