



Carel Industries SPA

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power solution

Project code	CM000SP063	Rev	0
Project description	FC MPXONE EVAP 1 1X 2 A DIR 1 PH 230 VAC DEF 1 1X 11 KW DIR 3 PH + N 400 VAC		
Supply voltage	3P+N+E - 400V - 50Hz	Operating temperature	35°C
Rated current	18A		
Auxiliary voltage	230Vac		
Designed by	Luca Quaggia	on	31/01/2023
Checked by		on	
Approved by		on	
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			Date	31/01/2023	CM000SP063		Title page	Mounting locations	+	Page	&EAA/1
			Elab	Luca Quaggia	FC MPXONE EVAP 1 1X 2 A DIR 1 PH 230 VAC DEF 1 1X 11 KW DIR 3 PH + N 400 VAC			Next		2	
Modification	Date	Name	Rev.	0				Function	=	Total pages	24

Cables Range		
Cross-sect	FS17 Range (60°C)	FG17 Range (60°C)
0,5	4 A	\
0,75	\	\
1	10.3 A	12 A
1,5	13.5 A	19.5 A
2,5	18.3 A	26 A
4	24 A	35 A
6	31 A	46 A
10	44 A	63 A
16	59 A	85 A
\	\	\
25	77 A	112 A
35	96 A	138 A
50	117 A	168 A
70	134 A	213 A
95	\	268 A

AWG Cables Range	
AWG Type	Range (75°C)
22	3 A
\	\
18	7 A
16	10 A
14	15 A
12	20 A
10	30 A
8	50 A
6	65 A
4	85 A
3	100 A
2	115 A
1	131 A
\	\
\	\

Colors Table	
Colors	Short name
Red	RD
Black	BK
Yellow	YE
Yellow\Green	GNYE
Orange	OG
Light blue	TQ
Blue	BU
Pink	PK
White	WH
Gray	GY
Brown	BN
Green	GN
Purple	VT
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\	
\	

REVIEW TABLE

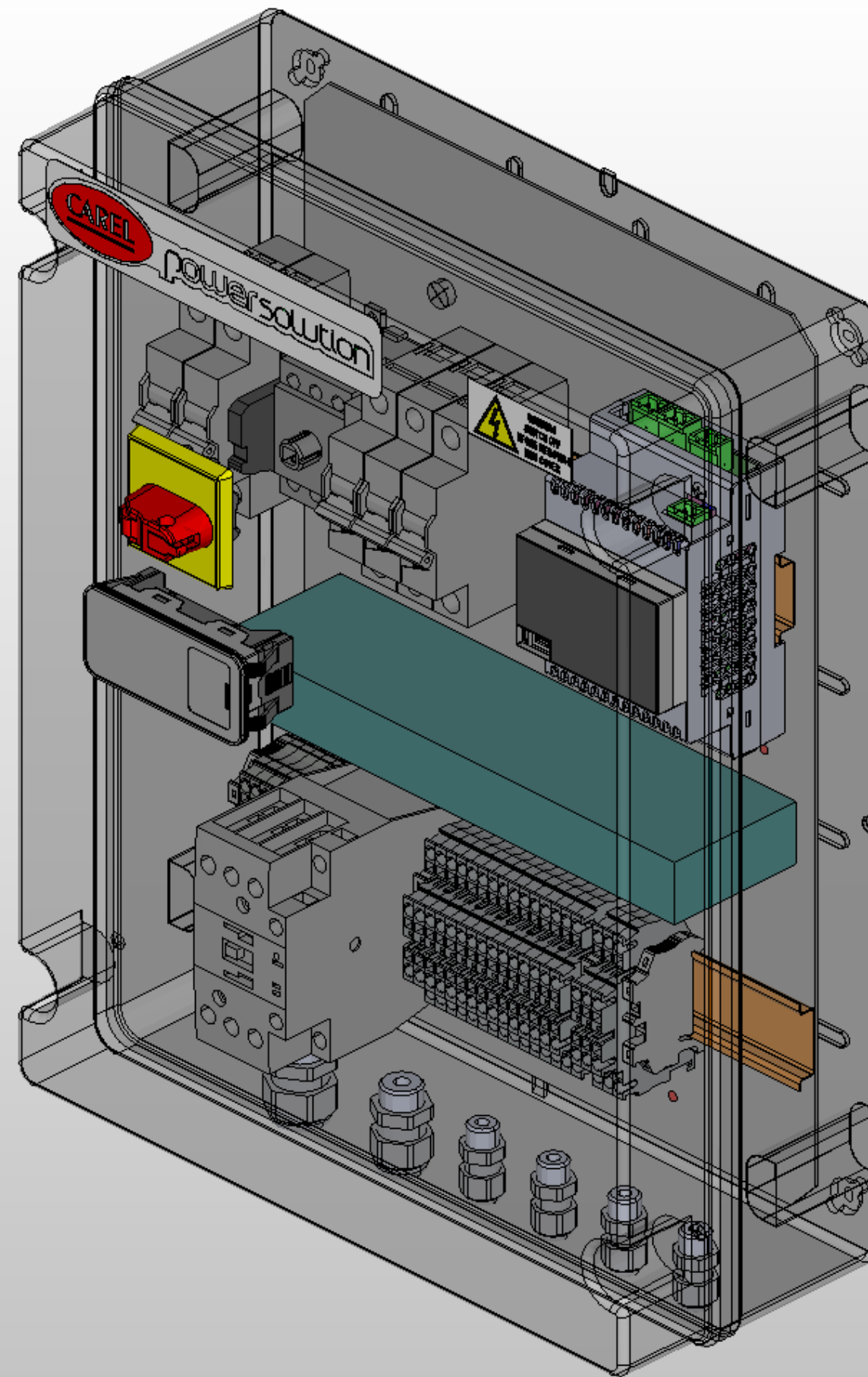
Rev.	Technical name	Date	Note

Date	31/01/2023	CM000SP063			
Elab	Luca Quaggia				
Modification	Date	Name	Rev.	0	FC MPXONE EVAP 1 1X 2 A DIR 1 PH 230 VAC DEF 1 1X 11 KW DIR 3 PH + N 400 VAC



Technical information

Mounting locations	+	Page	&EAA/2
Function	=	Next	&EAB/1
		Total pages	24



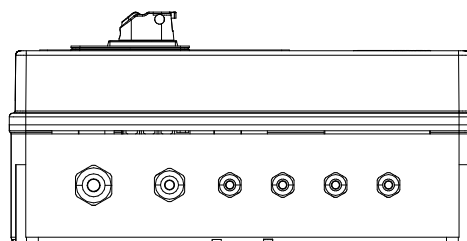
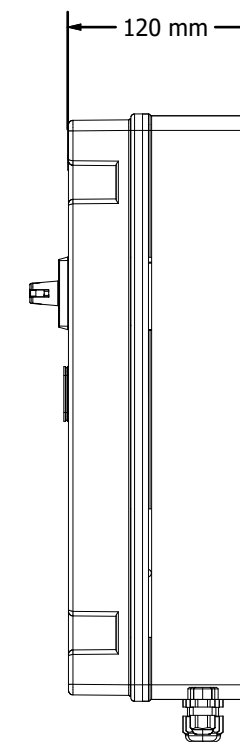
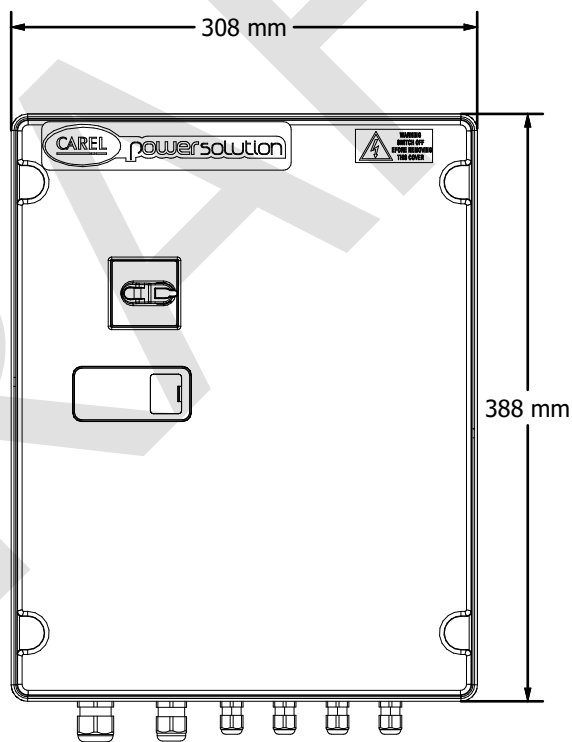
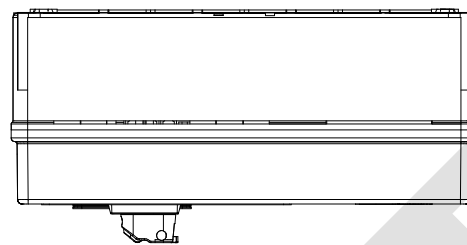
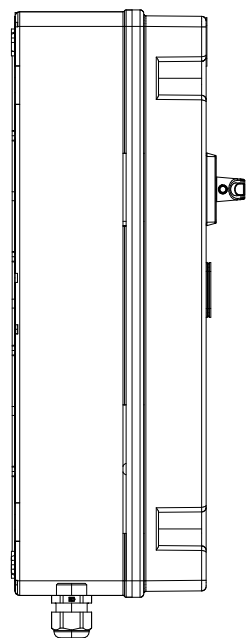
			Date	31/01/2023
			Elab	Luca Quaggia
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 DEF 1 1X 11 KW DIR 3 PH + N 400 VAC



General view

Mounting locations	+ QE	Page	+QE&ETL/1
		Next	2
Function	=	Total pages	24



Modification	Date	Name	Rev.	0
			Date	31/01/2023
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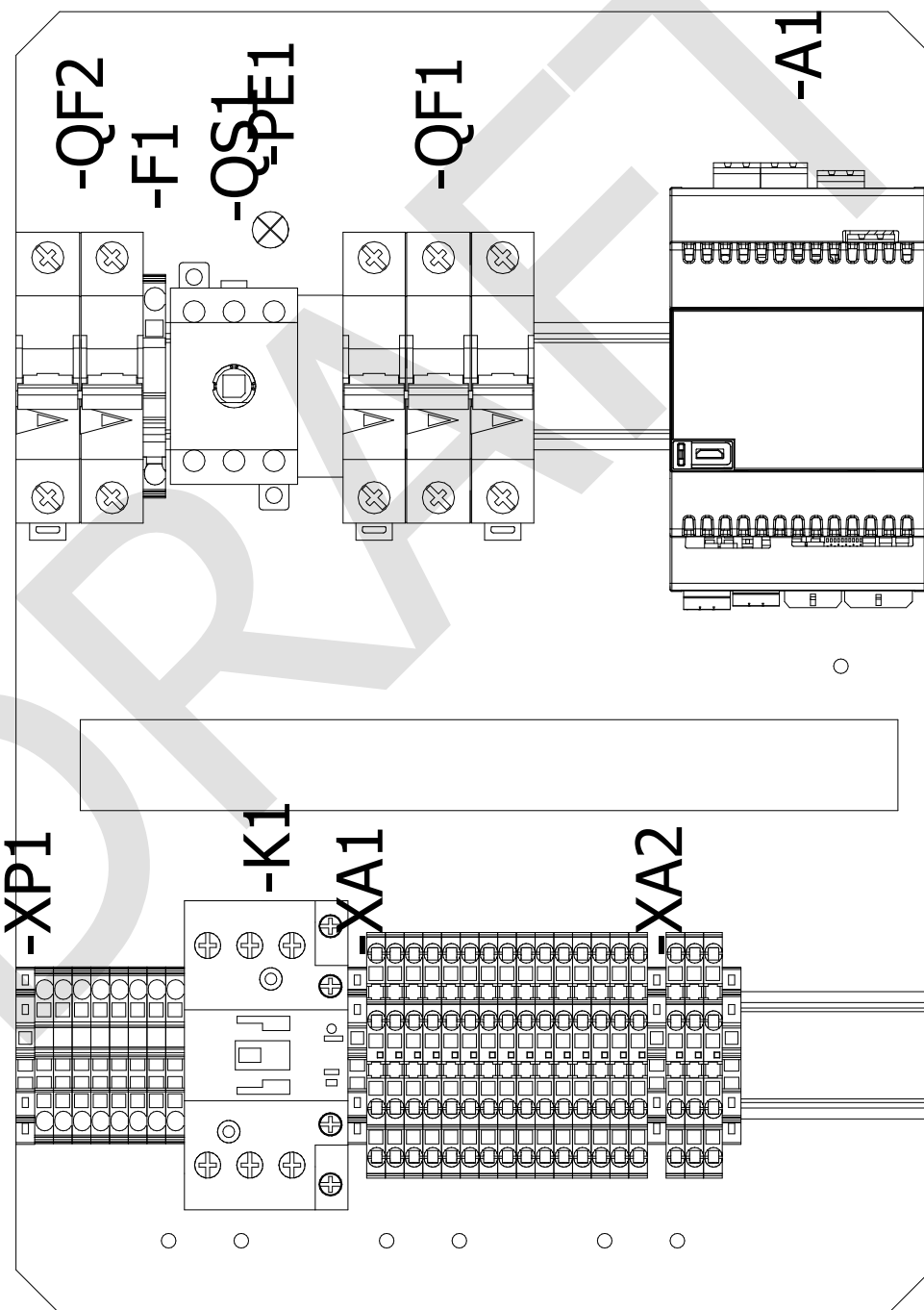
CM000SP063
FC MPXONE EVAP 1 1X 2 A DIR 1 PH 230 VAC DEF 1 1X 11 KW DIR 3 PH + N 400 VAC



View of all sides

Mounting locations	+ QE
Function	=

Page	+QE&ETL/2
Next	3
Total pages	24



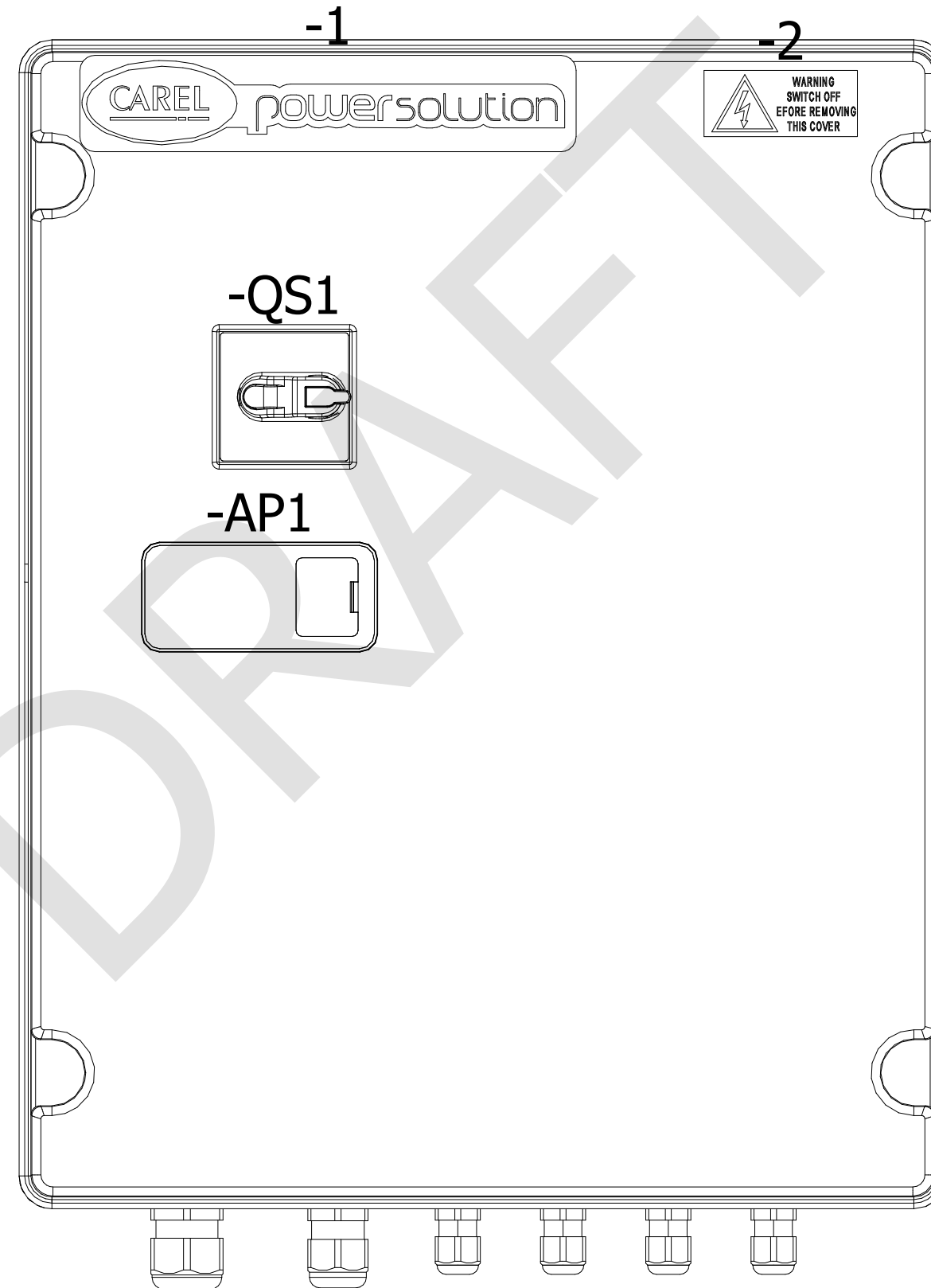
			Date	31/01/2023
			Elab	Luca Quaggia
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Mounting plate view

Mounting locations	+ QE	Page	+QE&ETL/3
Function	=	Next	4
		Total pages	24



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Door view

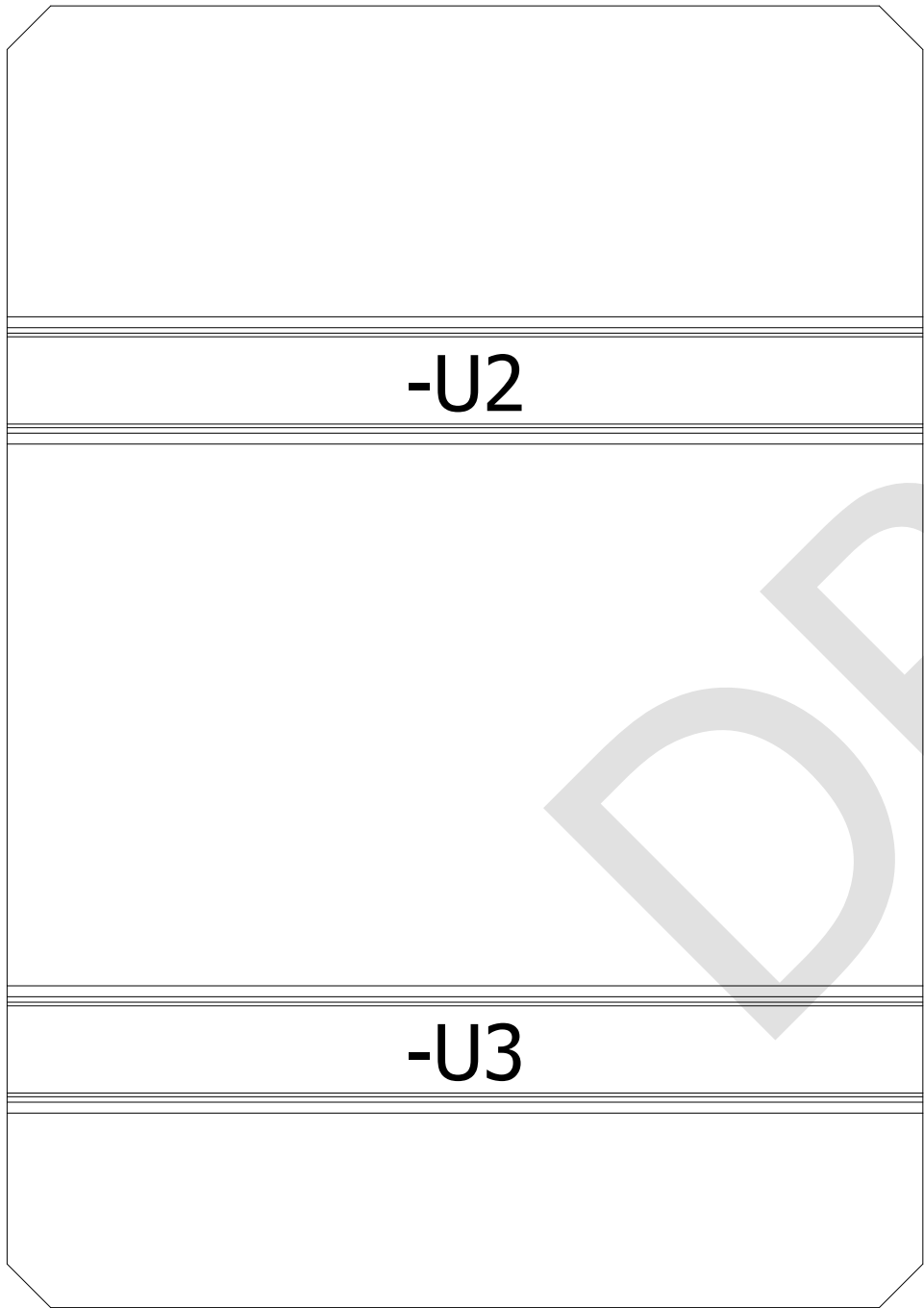
Mounting locations	+ QE
Function	=

Page	+QE&ETL/4
Next	5
Total pages	24

Layout guides and channels

Sign	Type	Length (Tolerance -5mm)
U3	35x7.5	252 mm
U2	35x7.5	252 mm

U11	Rise 1cm	
U12	Rise 1cm	



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Empty

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Guides view

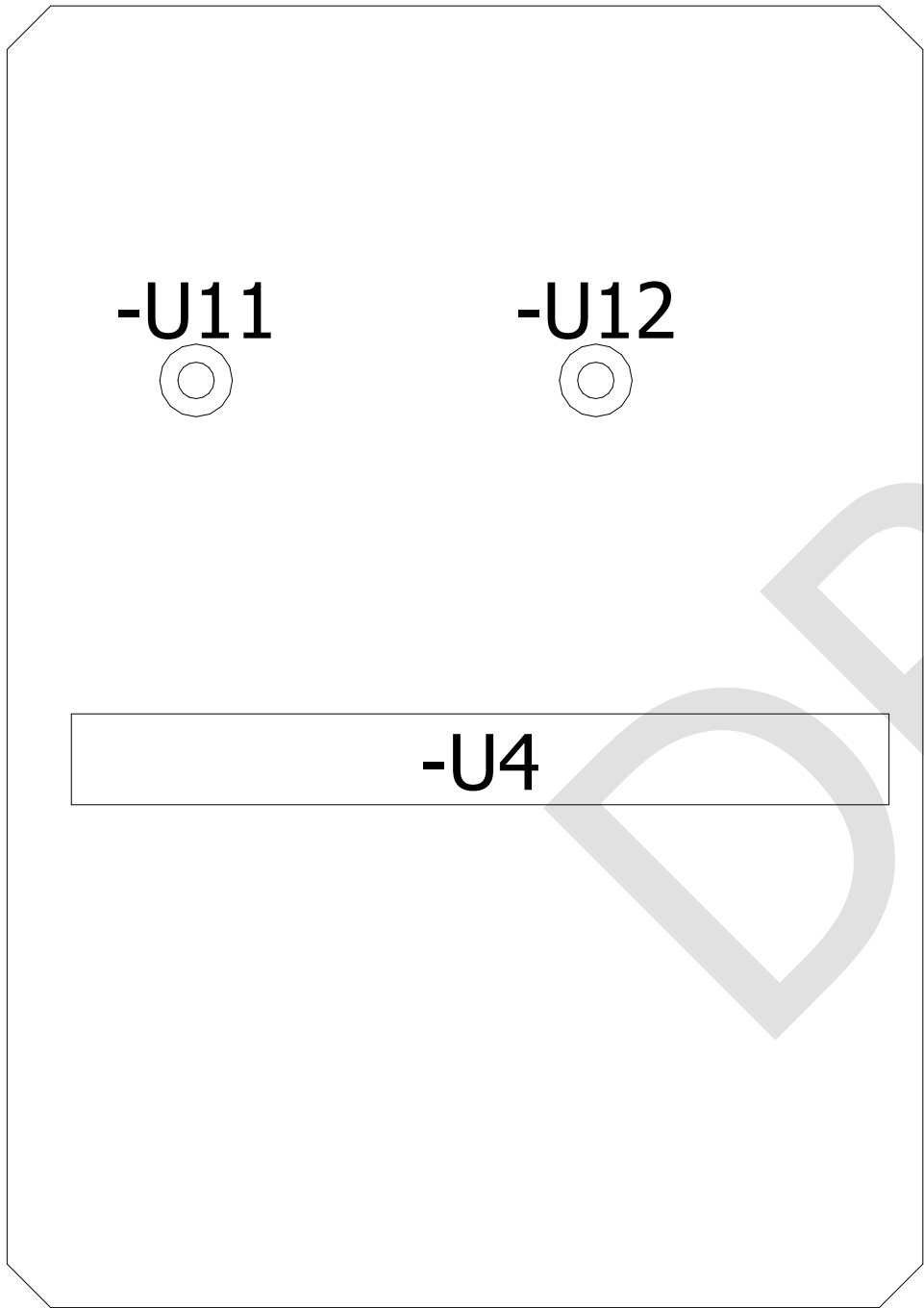
Mounting locations	+ QE
Function	=

Page	+QE&ETL/5
Next	6
Total pages	24

Layout guides and channels

Sign	Type	Length (Tolerance -5mm)
U4	25x60	225 mm

U11	Rise 1cm	
U12	Rise 1cm	



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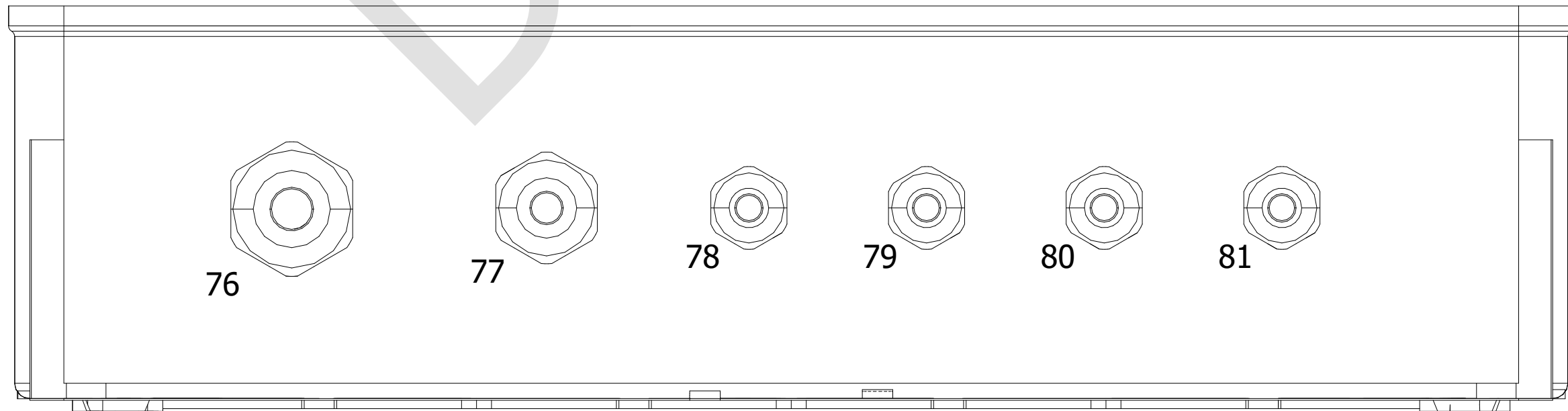
Channels view

Mounting locations	+ QE
Function	=

Page	+QE&ETL/6
Next	7
Total pages	24

Cable entry/exit components

Item number	Component tipe	Drilling (Tollerance +0.5mm)
76	M20 Gland	Ø 20.5mm
77	M16 Gland	Ø 16.5mm
78	Pressacavo M12	Ø 12.5mm
79	Pressacavo M12	Ø 12.5mm
80	Pressacavo M12	Ø 12.5mm
81	Pressacavo M12	Ø 12.5mm



Modification	Date	Name	Rev.	0
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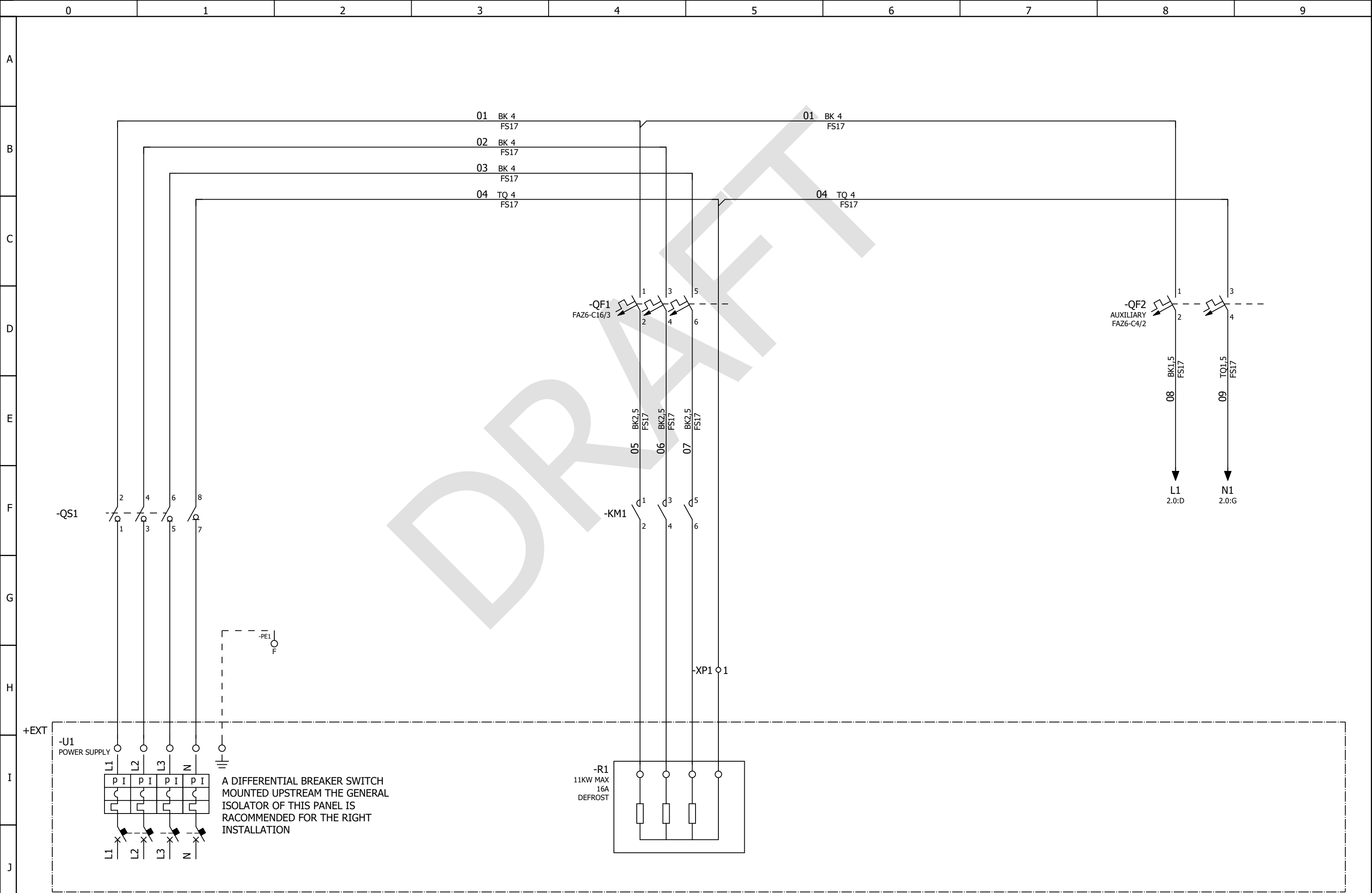
Date	31/01/2023
Elab	Luca Quaggia
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FC MPXONE EVAP 1 1X 2 A DIR 1 PH 230 VAC	
DEF 1 1X 11 KW DIR 3 PH + N 400 VAC	



Bottom view

Mounting locations	+ QE
Function	=

Page	+QE&ETL/7
Next	&EFS/1
Total pages	24



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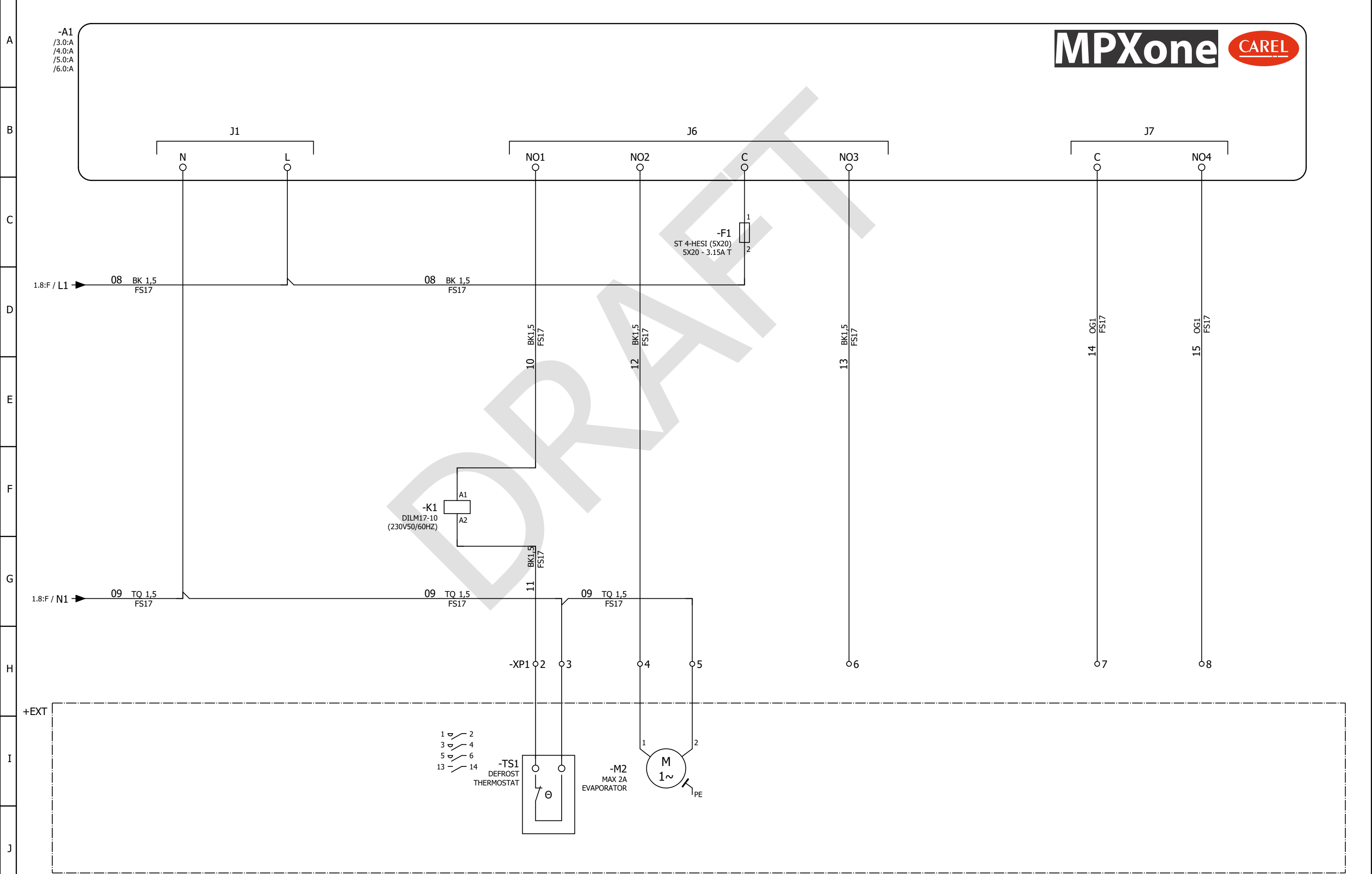
CM000SP063
FC MPXONE EVAP 1 X 2 A DIR 1 PH 230 VAC DEF 1 X 11 KW DIR 3 PH + N 400 VAC



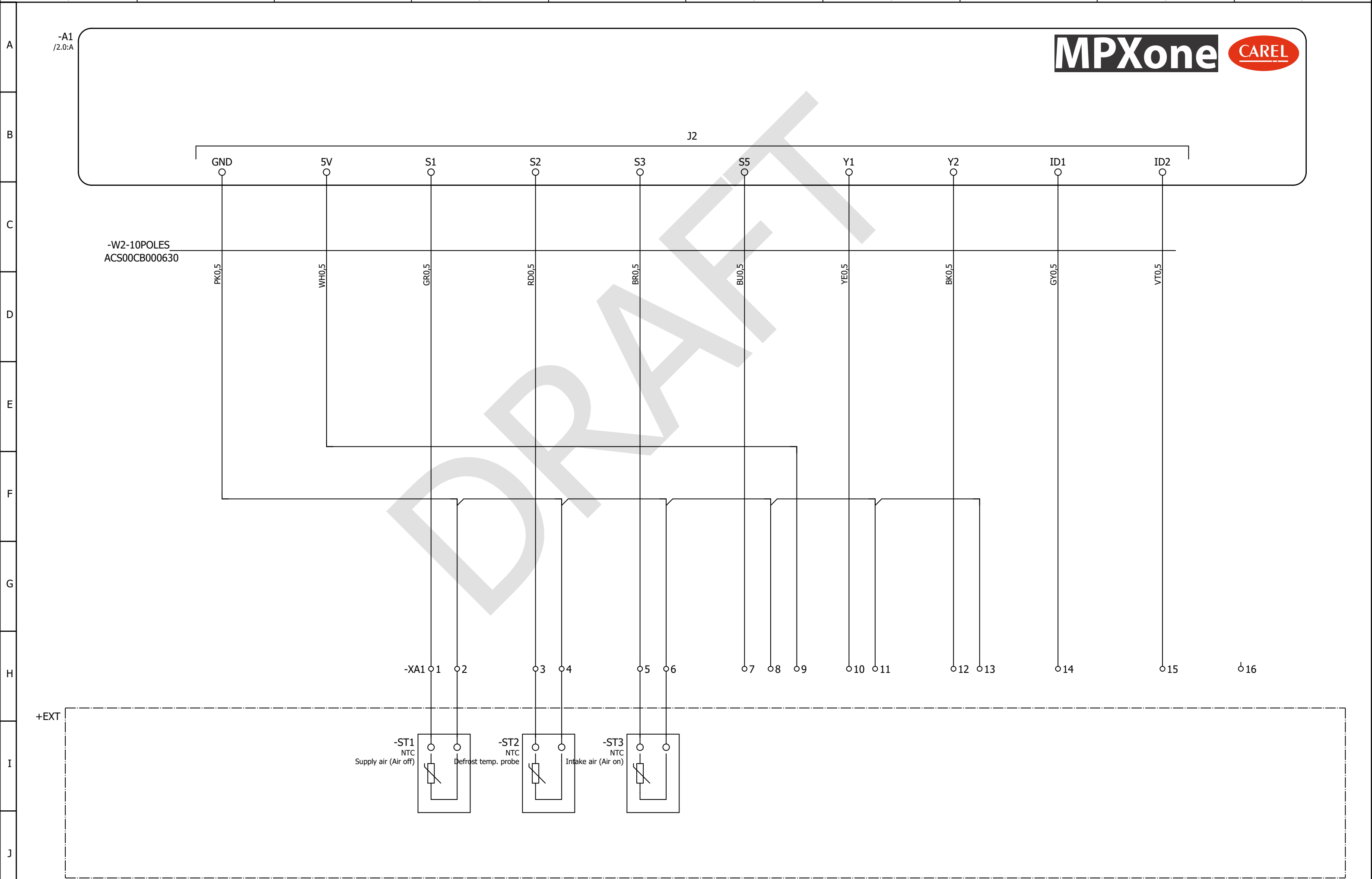
Power circuit

Mounting locations	+ QE
Function	=

Page	+QE&EFS/1
Next	2
Total pages	24



Date		31/01/2023		CM000SP063				Auxiliary circuit		Mounting locations + QE		Page +QE&EFS/2	
Elab		Luca Quaggia		FC MPXONE EVAP 1 1X 2 A DIR 1 PH 230 VAC DEF 1 1X 11 KW DIR 3 PH + N 400 VAC						Function =		Next 3	
Modification	Date	Name	Rev.	0							Total pages 24		

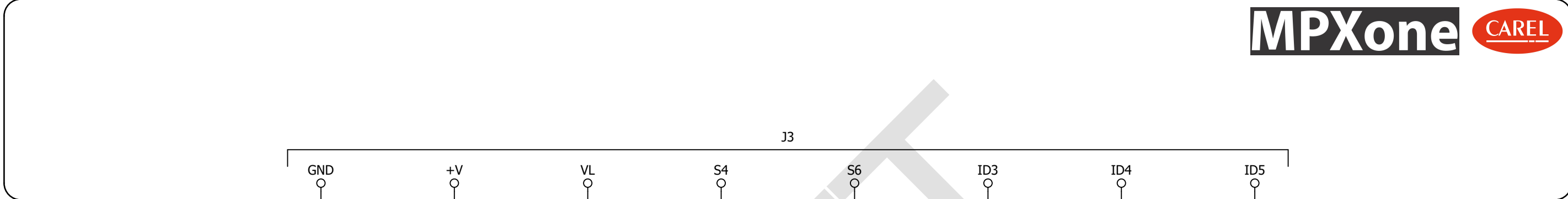


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		Elab	Luca Quaggia				FC MPXONE EVAP 1 1X 2 A DIR 1 PH 230 VAC DEF 1 1X 11 KW DIR 3 PH + N 400 VAC	Next	4	
Modification	Date	Name	Rev.	0			Function	=	Total pages	24

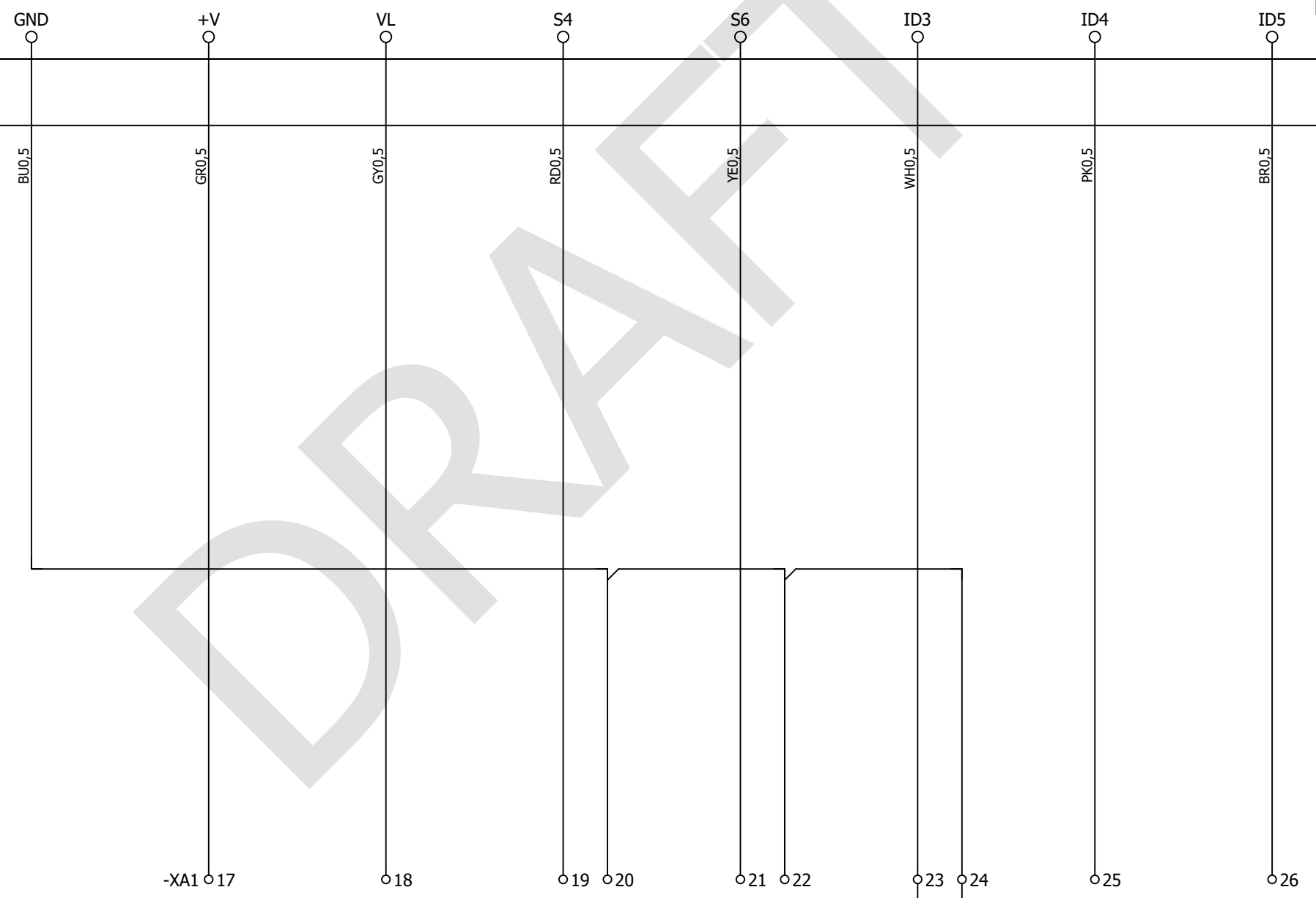
A
B
C
D
E
F
G
H
I
J



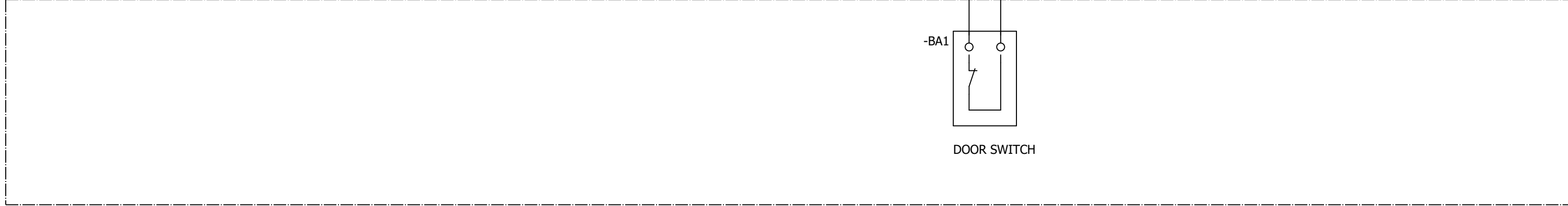
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/2.0:A



-W2-8POLES
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+EXT



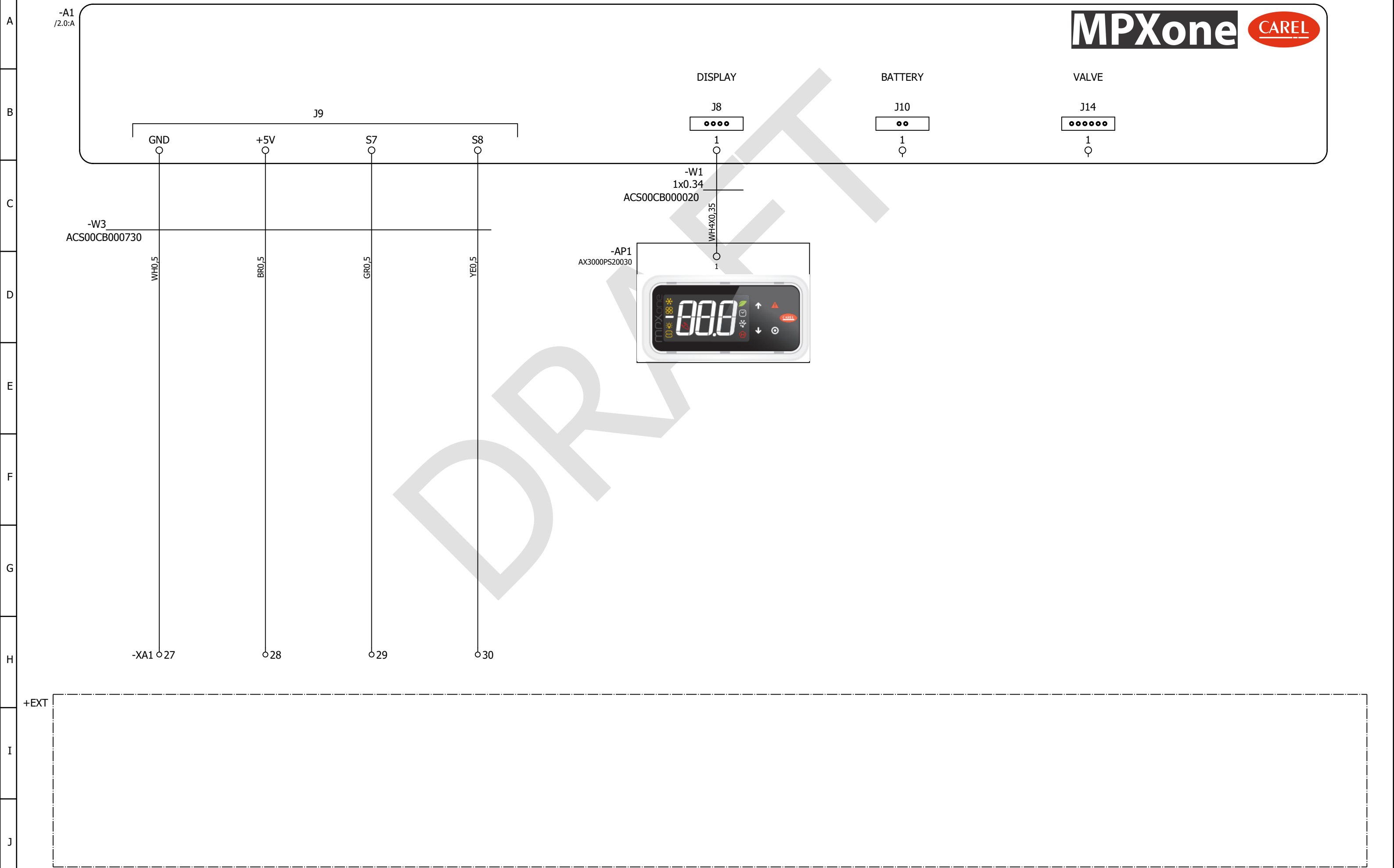
Date	31/01/2023			
Elab	Luca Quaggia			
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DEF 1 1X 11 KW DIR 3 PH + N 400 VAC

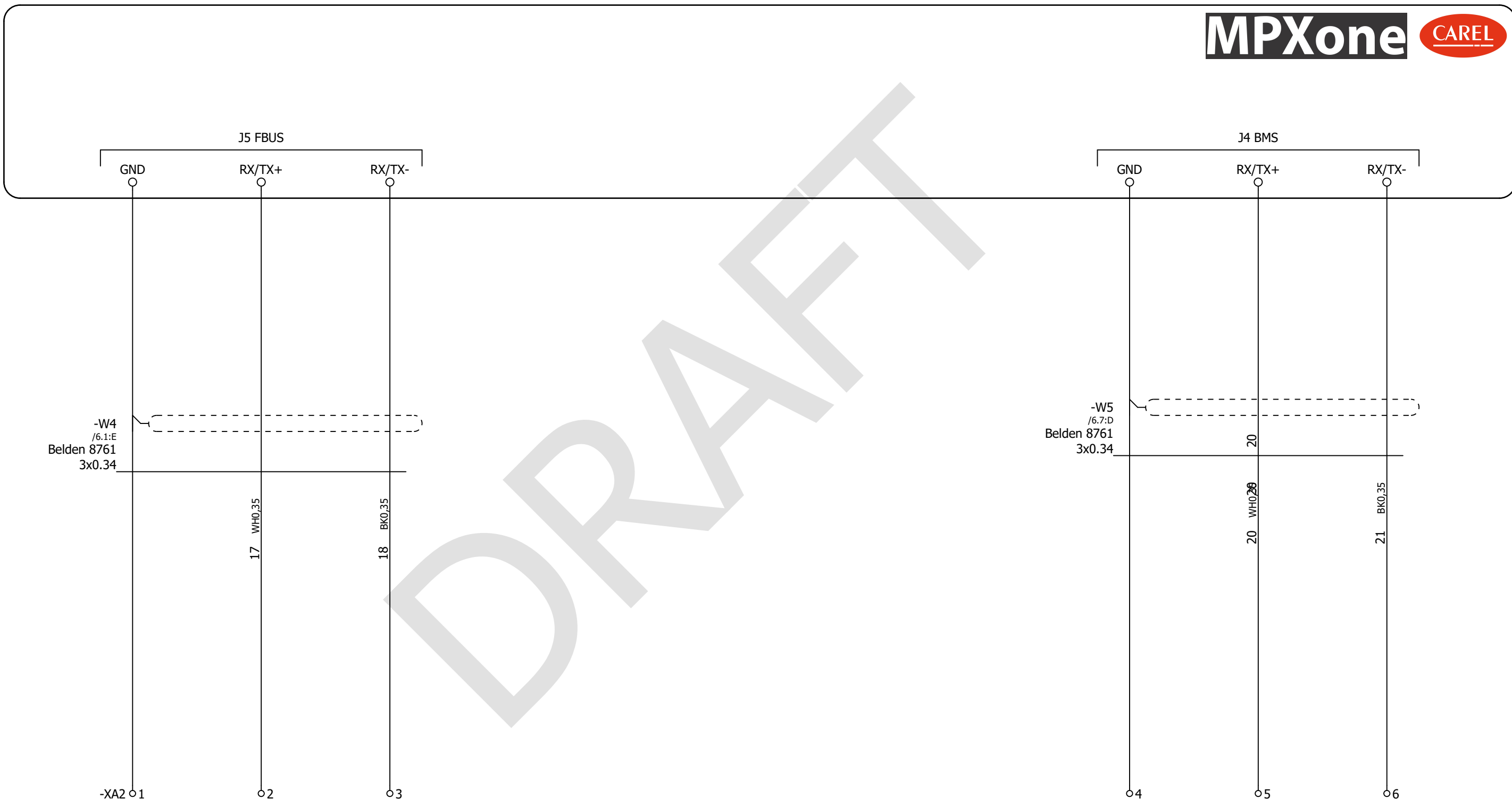


Auxiliary circuit

Mounting locations	+ QE	Page	+QE&EFS/4
Function	=	Next	5
		Total pages	24



				Date	31/01/2023	CM000SP063		Auxiliary circuit	Mounting locations	+ QE	Page	+QE&EFS/5
				Elab	Luca Quaggia				Next	6		
Modification	Date	Name	Rev.	0	FC MPXONE EVAP 1 1X 2 A DIR 1 PH 230 VAC DEF 1 1X 11 KW DIR 3 PH + N 400 VAC				Function	=	Total pages	24



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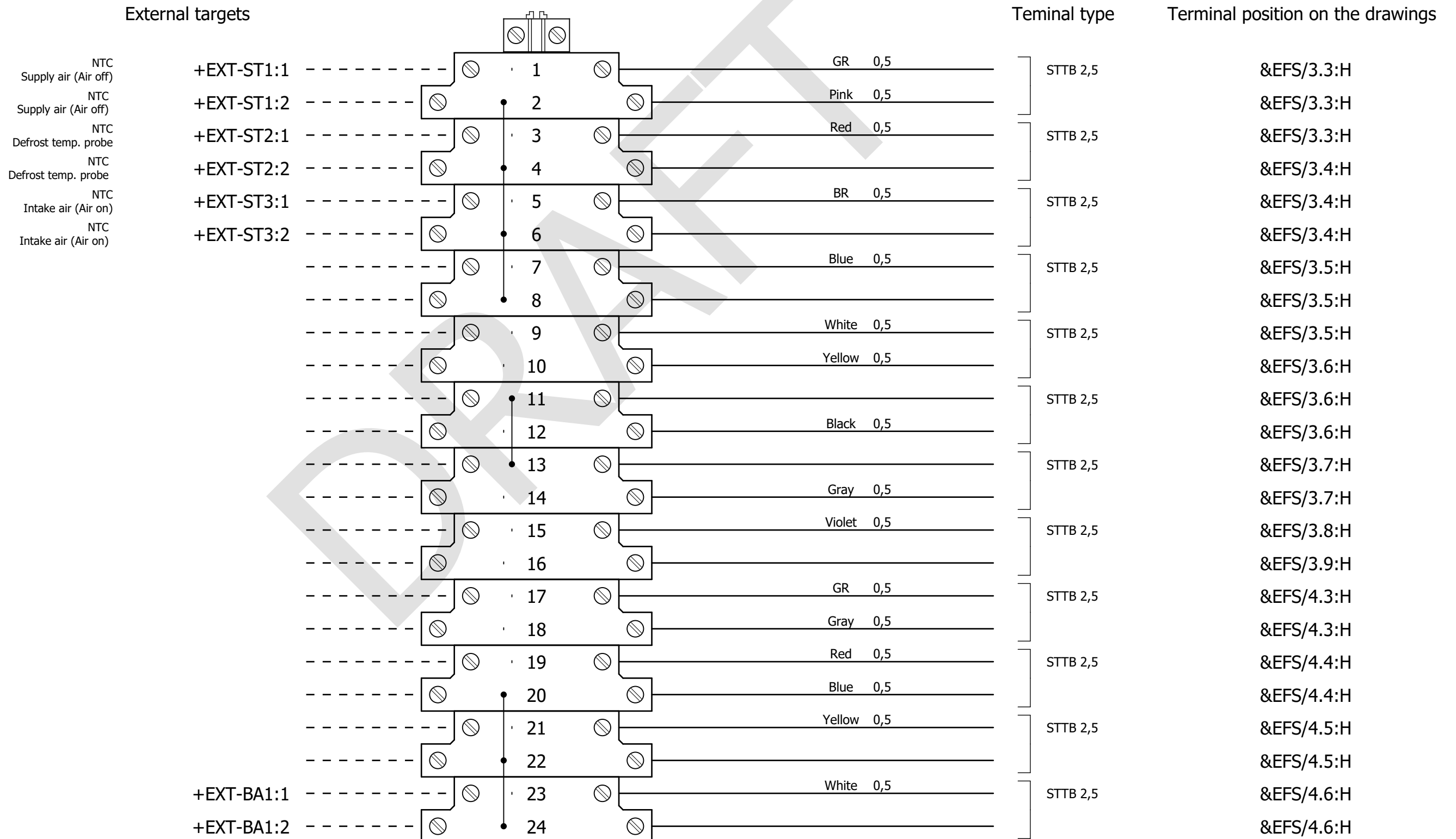


Date	31/01/2023	CM000SP063		Auxiliary circuit	Mounting locations	+ QE	Page	+QE&EFS/6
Elab	Luca Quaggia				Function	=	Next	&EMA/1
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Terminal diagram

Terminal strip

+QE-XA1



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 DEF 1 1X 11 KW DIR 3 PH + N 400 VAC



Terminal strip

Mounting locations	+ QE	Page	+QE&EMA/1
Function	=	Next	1.a
		Total pages	24

Terminal diagram

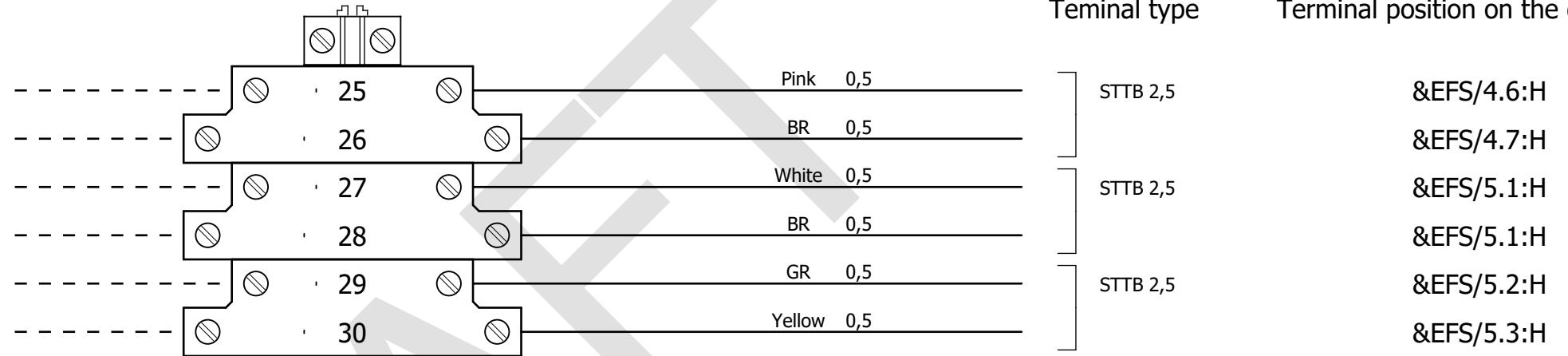
Terminal strip

External targets

+QE-XA1

Terminal type

Terminal position on the drawings



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 DEF 1 1X 11 KW DIR 3 PH + N 400 VAC



Terminal strip

Mounting locations	+ QE	Page +QE&EMA/1.a
Function	=	Next 2 Total pages 24

Terminal diagram

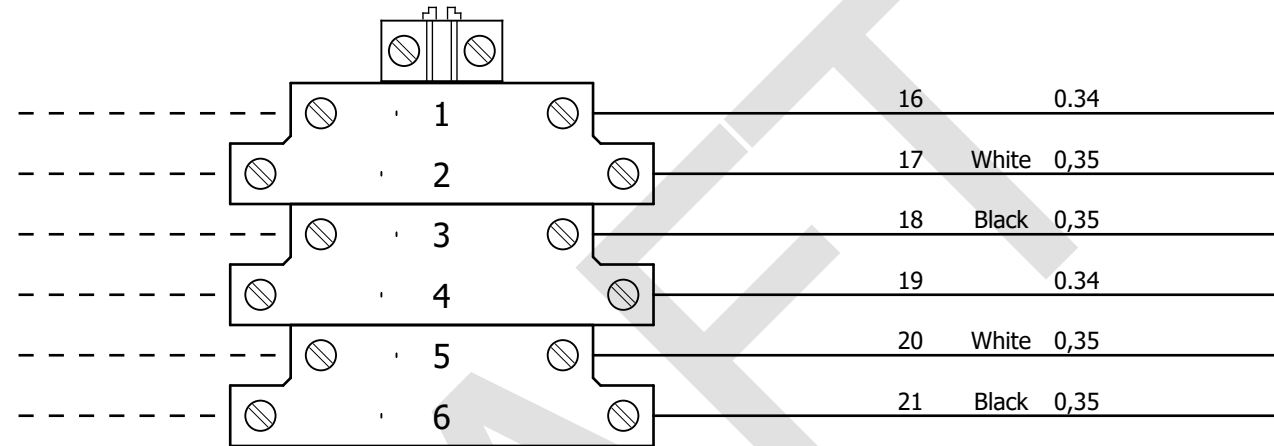
Terminal strip

+QE-XA2

External targets

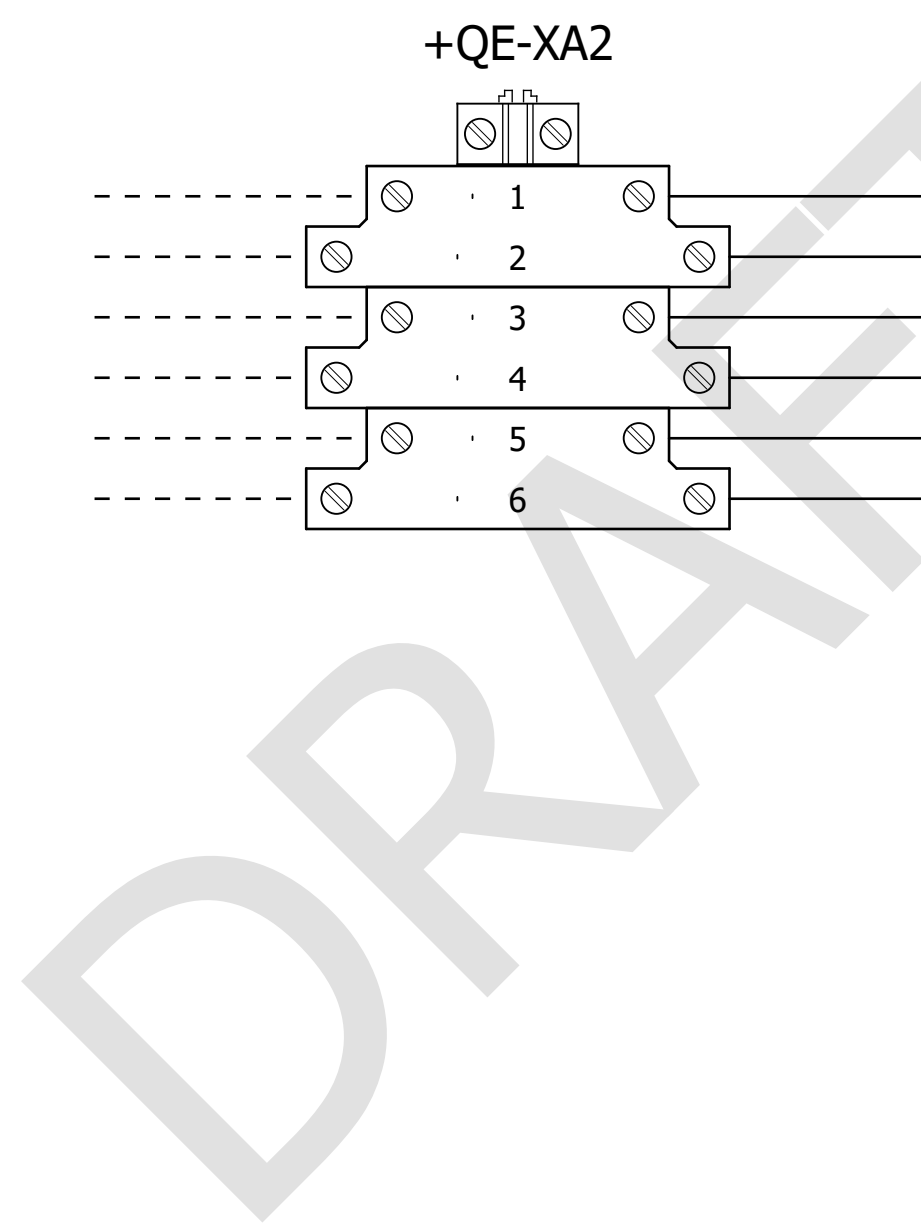
Terminal type

Terminal position on the drawings



STTB 2,5
STTB 2,5
STTB 2,5

&EFS/6.1:H
&EFS/6.2:H
&EFS/6.2:H
&EFS/6.7:H
&EFS/6.8:H
&EFS/6.8:H



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DEF 1 1X 11 KW DIR 3 PH + N 400 VAC



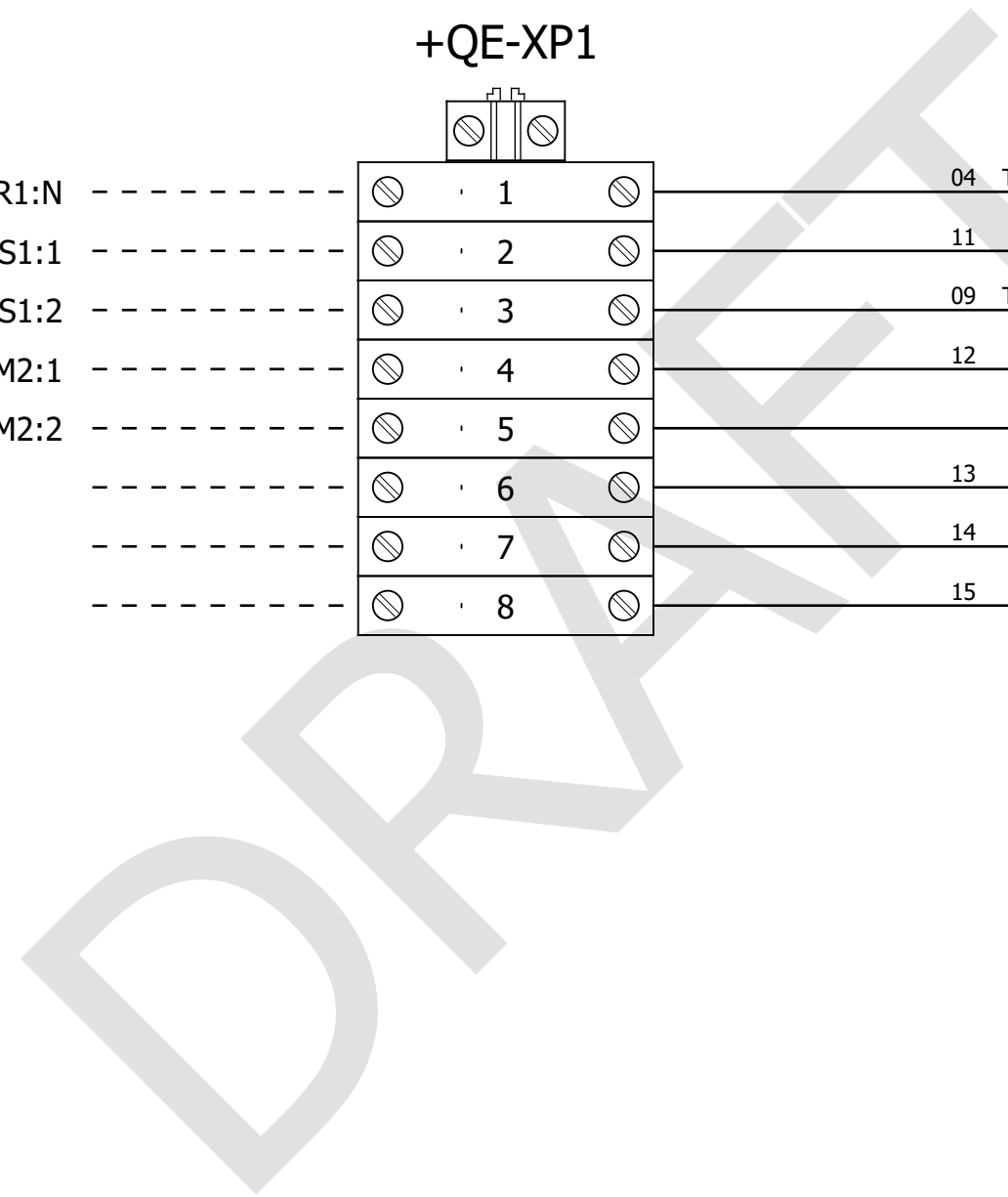
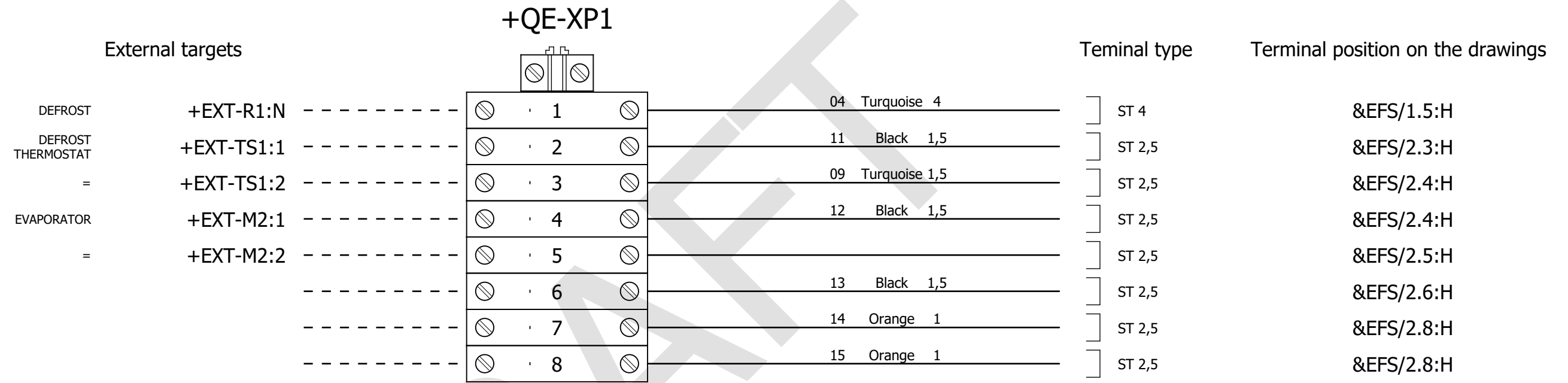
Terminal strip

Mounting locations	+ QE
Function	=

Page	+QE&EMA/2
Next	3
Total pages	24

Terminal diagram

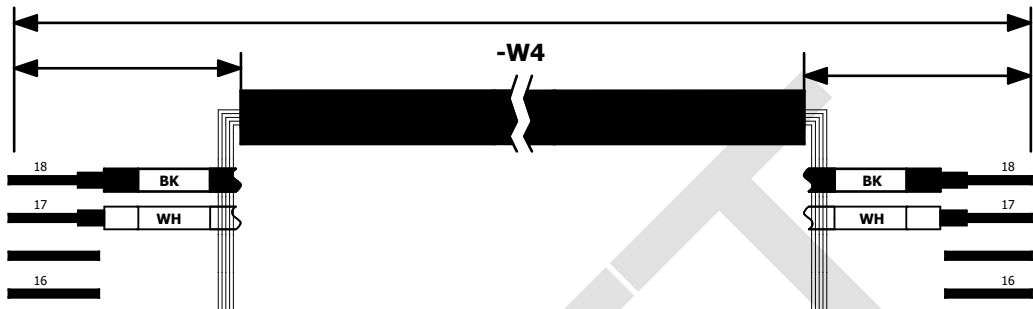
Terminal strip



Cable name +QE-W4
Cable type Belden 8761 3x0.34 mm²
Free conductors 0

Cable parts BELDEN.8761
Order number

Mounting location:	Origin	Function text source	Terminal
Electrical panel	-XA2:3:A		
Electrical panel	-XA2:2:B		
Electrical panel	-W4		
Electrical panel	-XA2:1:A		

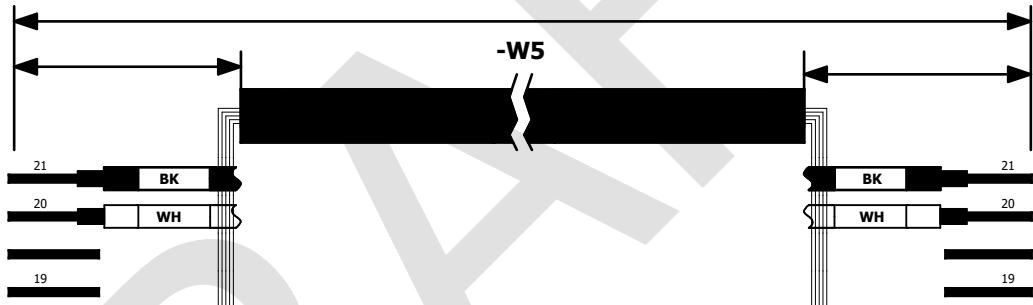


Display	Function text target	Target	Mounting location:
		-A1:J5 FBUS:RX/TX-	Electrical panel
		-A1:J5 FBUS:RX/TX+	Electrical panel
		-A1:J5 FBUS:GND	Electrical panel
		-A1:J5 FBUS:GND	Electrical panel

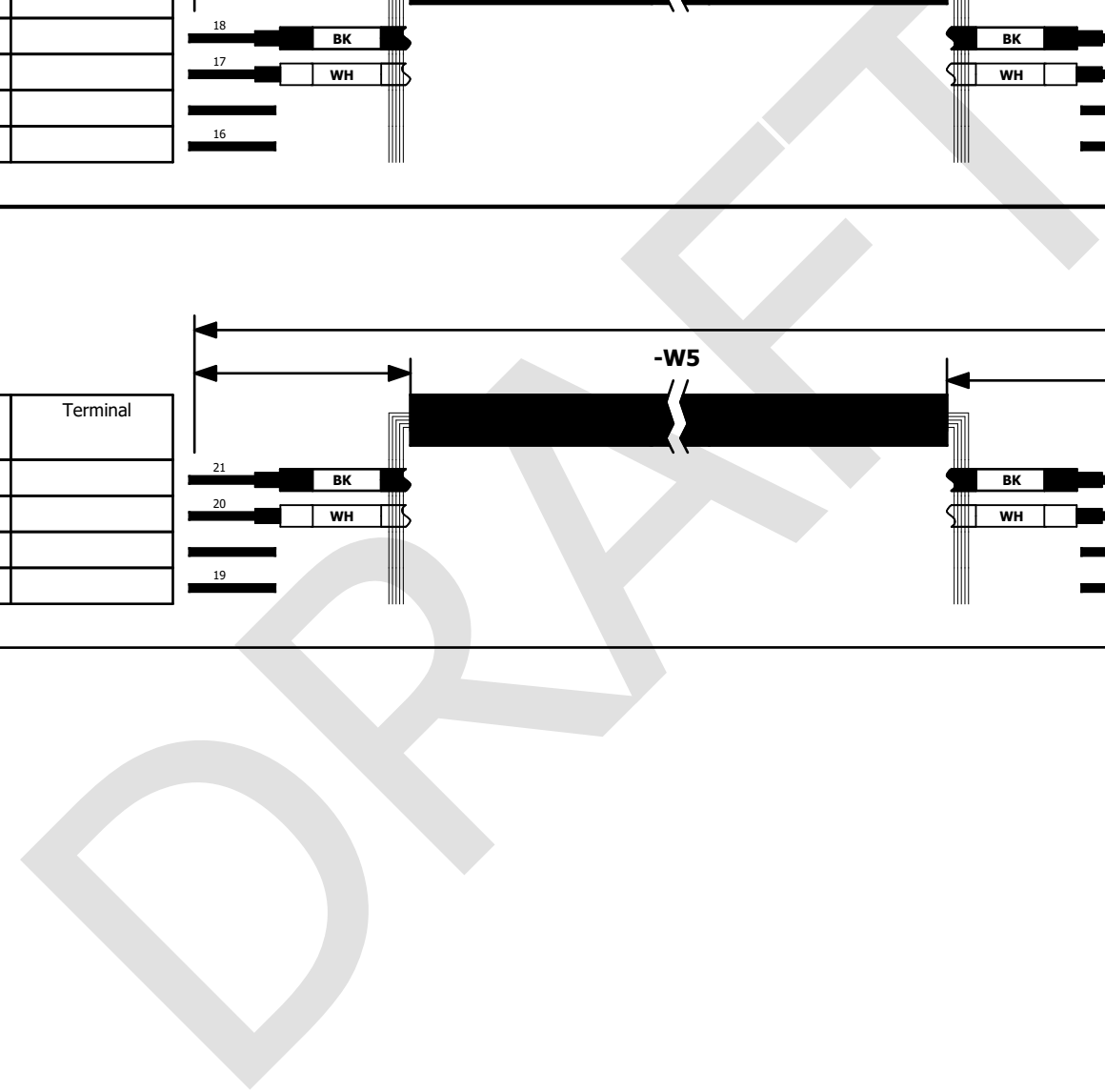
Cable name +QE-W5
Cable type Belden 8761 3x0.34 mm²
Free conductors 0

Cable parts BELDEN.8761
Order number

Mounting location:	Origin	Function text source	Terminal
Electrical panel	-XA2:6:B		
Electrical panel	-XA2:5:A		
Electrical panel	-W5		
Electrical panel	-XA2:4:B		



Display	Function text target	Target	Mounting location:
		-A1:J4 BMS:RX/TX-	Electrical panel
		-A1:J4 BMS:RX/TX+	Electrical panel
		-A1:J4 BMS:GND	Electrical panel
		-A1:J4 BMS:GND	Electrical panel



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Multicore cables scheme

Mounting locations	+ QE	Page +QE&EMB/1.a
Function	=	Next &EPA/1
		Total pages 24

