

Vacon Drives (UK) Ltd.
 Member of the Danfoss Group
 Hinckley Fields Industrial Estate
 LE10 1YF LEICESTERSHIRE

Tel.:
 Fax:

Project number: GBTOA-000384_3	
Description of Project:	
Customer: JJ Loughran Ltd. Kelley David 155 Drum Road 155 Drum Road BT80 9DW Cookstown UNITED KINGDOM	Delivery address:
Drive system: VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DNOT+CAPT+CAPD+CIFD+CDLP+CPS1+GNUL	
Project manager:	
Prepared:	Total number of pages: 39
Modification date: 17.2.2017	Customer reference code:



Project Id GBTOA-000384_3
 Project name
 Customer

Title Title page / cover sheet
 VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
 OT+CAPT+CAPD+CIFD+CDLP+CPS1+GNUL

Prepared
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 Document Id =TAD+RPT1/1
 External doc. Id

End customer description

Language EN
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VACON_F06_002

Page	Page description	Document type	External document Id	Prepared	Revision
=TAD+RPT1/1	Title page / cover sheet	RPT1		17.2.2017	
=TAD+RPT1/2	Table of contents	RPT1		17.2.2017	
=TAD+RPT1/3	Table of contents	RPT1		17.2.2017	
=TAD+PLO/4	Panel layout	PLO		17.2.2017	
=TAD+PLO/5	Panel layout	PLO		17.2.2017	
=TAD+SSL/6	Schematic single-line	SSL		17.2.2017	
=TAD+SML/7	Schematic multi-line	SML		17.2.2017	
=TAD+SML/8	Schematic multi-line	SML		17.2.2017	
=TAD+SML/9	Schematic multi-line	SML		17.2.2017	
=TAD+SML/10	Schematic multi-line	SML		17.2.2017	
=TAD+SML/11	Schematic multi-line	SML		17.2.2017	
=TAD+SML/12	Schematic multi-line	SML		17.2.2017	
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=TAD+SML/14	Schematic multi-line	SML		17.2.2017	
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=TAD+SML/16	Schematic multi-line	SML		17.2.2017	
=TAD+SML/17	Schematic multi-line	SML		17.2.2017	
=TAD+SML/18	Schematic multi-line	SML		17.2.2017	
=TAD+SML/19	Schematic multi-line	SML		17.2.2017	
=TAD+RPT2/20	Terminal diagram	RPT2		17.2.2017	
=TAD+RPT2/21	Terminal diagram	RPT2		17.2.2017	
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=TAD+RPT2/26	Terminal diagram	RPT2		17.2.2017	
=TAD+RPT2/27	Connection list	RPT2		17.2.2017	
=TAD+RPT2/28	Connection list	RPT2		17.2.2017	



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 Customer

Title Table of contents
 VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
 OT+CAPT+CAPD+CIFD+CDLP+CPS1+GNUL

Prepared
 Approved
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 External doc. Id

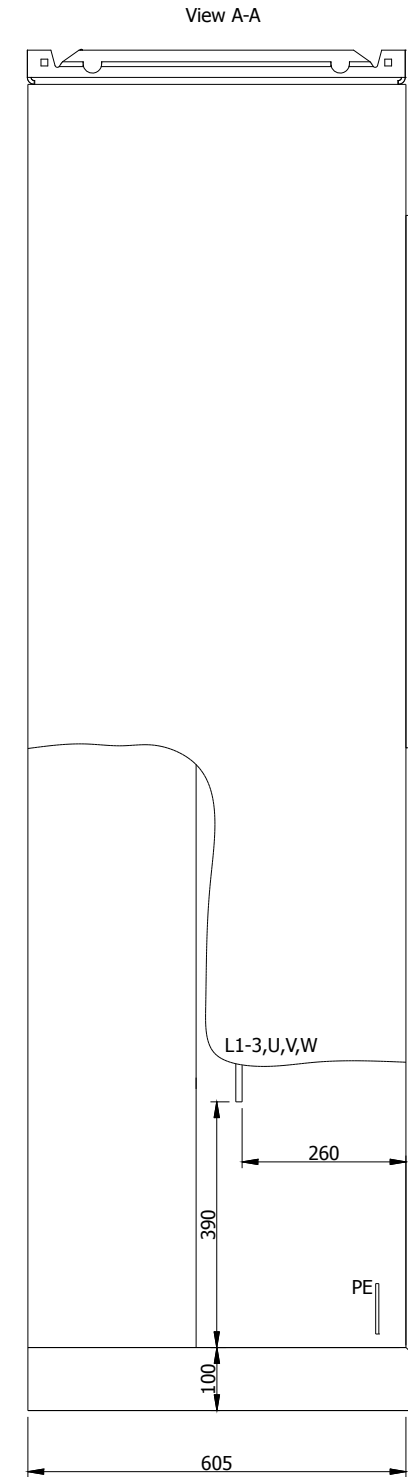
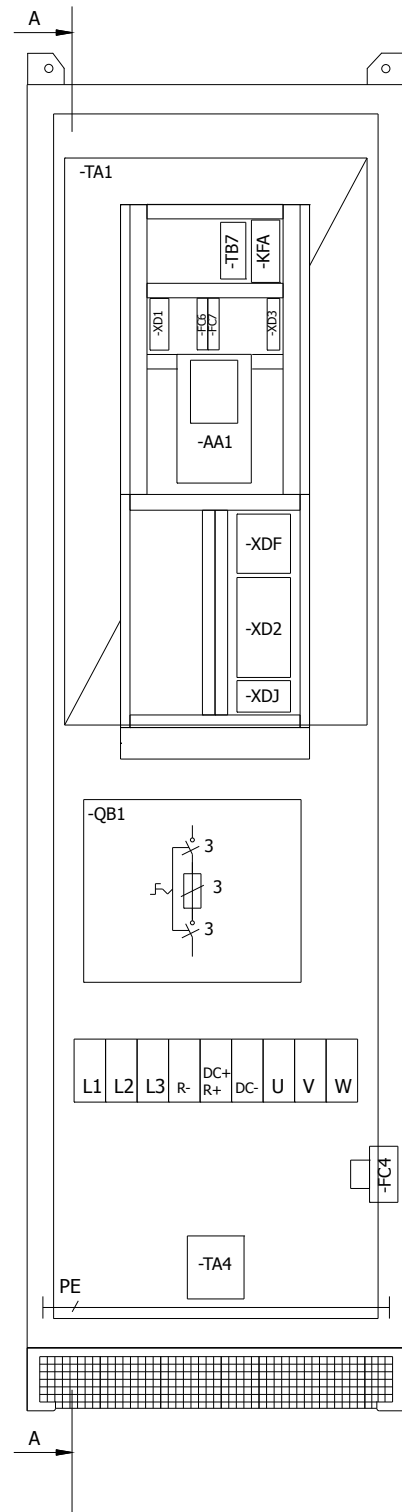
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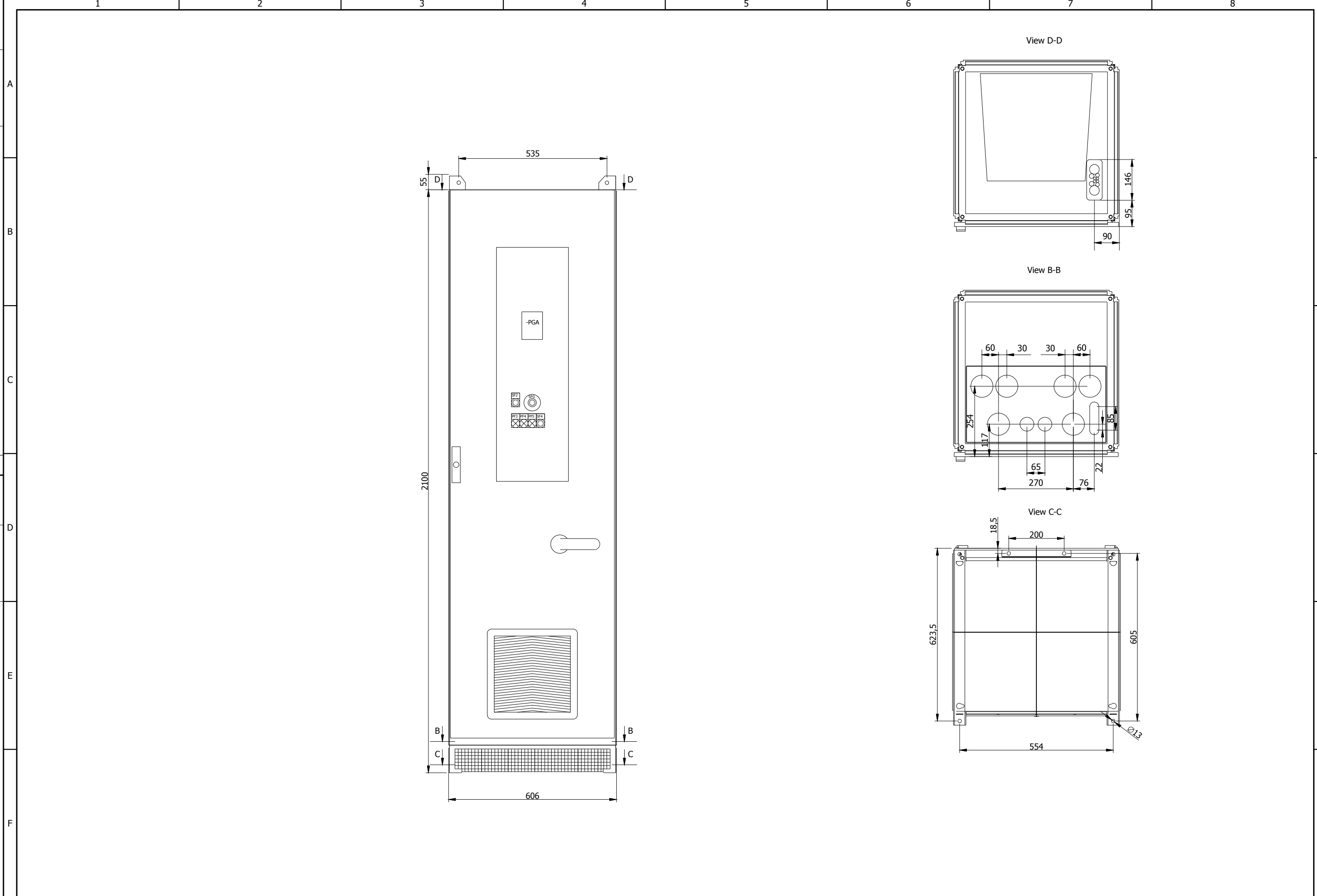
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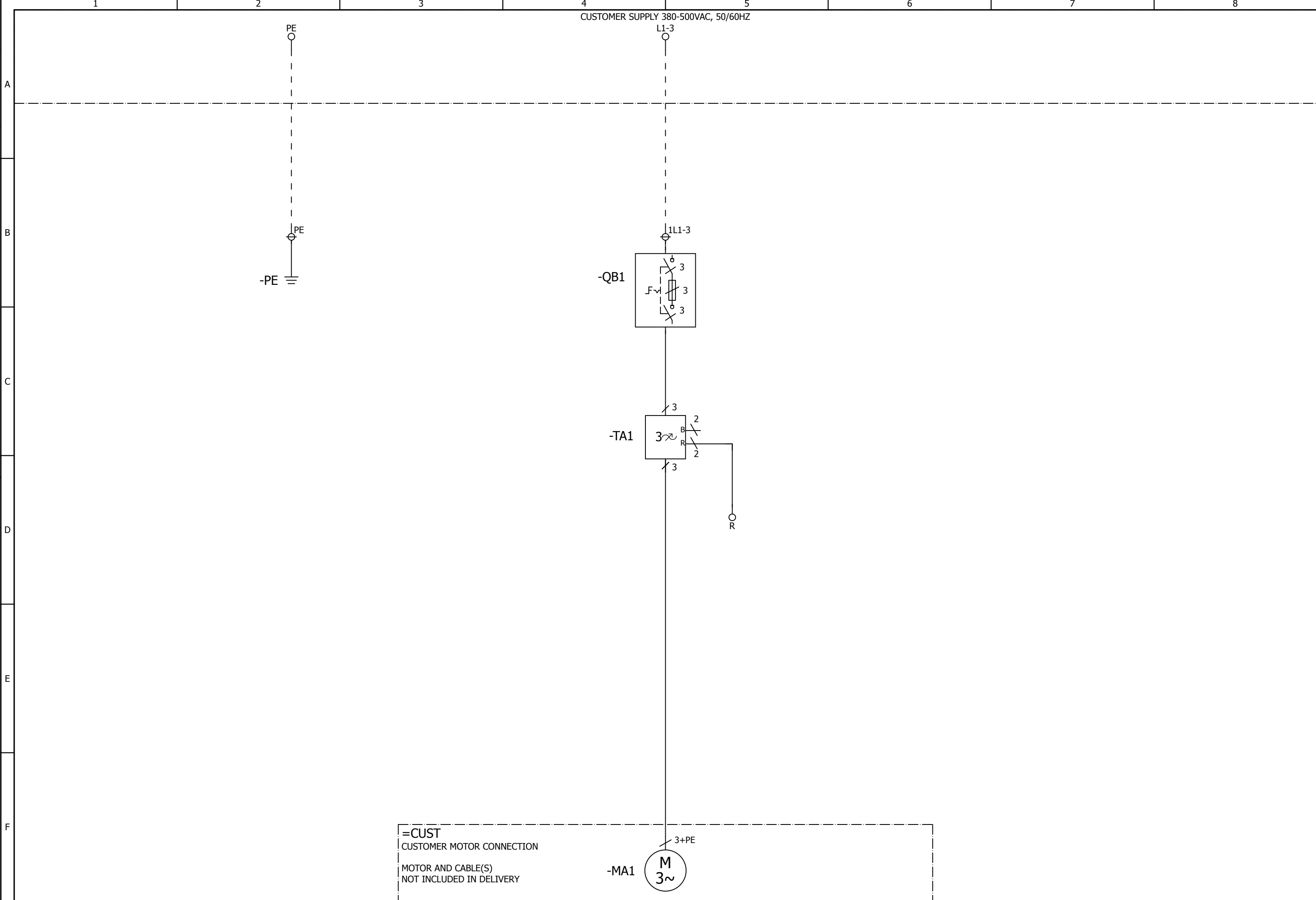
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Page	Page description	Document type	External document Id	Prepared	Revision
=TAD+RPT2/29	Connection list	RPT2		17.2.2017	
=TAD+RPT2/30	Parts list	RPT2		17.2.2017	
=TAD+RPT2/31	Parts list	RPT2		17.2.2017	
=TAD+RPT2/32	Cable overview	RPT2		17.2.2017	
=TAD+RPT2/33	Cable diagram	RPT2		17.2.2017	
=TAD+RPT2/34	Cable diagram	RPT2		17.2.2017	
=TAD+RPT2/35	Plug diagram	RPT2		17.2.2017	
=TAD+RPT2/36	Plug diagram	RPT2		17.2.2017	
=TAD+RPT2/37	Plug diagram	RPT2		17.2.2017	
=TAD+RPT2/38	Plug diagram	RPT2		17.2.2017	
=TAD+RPT2/39	Plug diagram	RPT2		17.2.2017	







Project Id GBTOA-000384_3
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Title Schematic single-line
 VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
 OT+CAPT+CAPD+CIJD+CDLP+CPS1+GNUL

Prepared
 Approved
 Document Id =TAD+SSL/6
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End customer description

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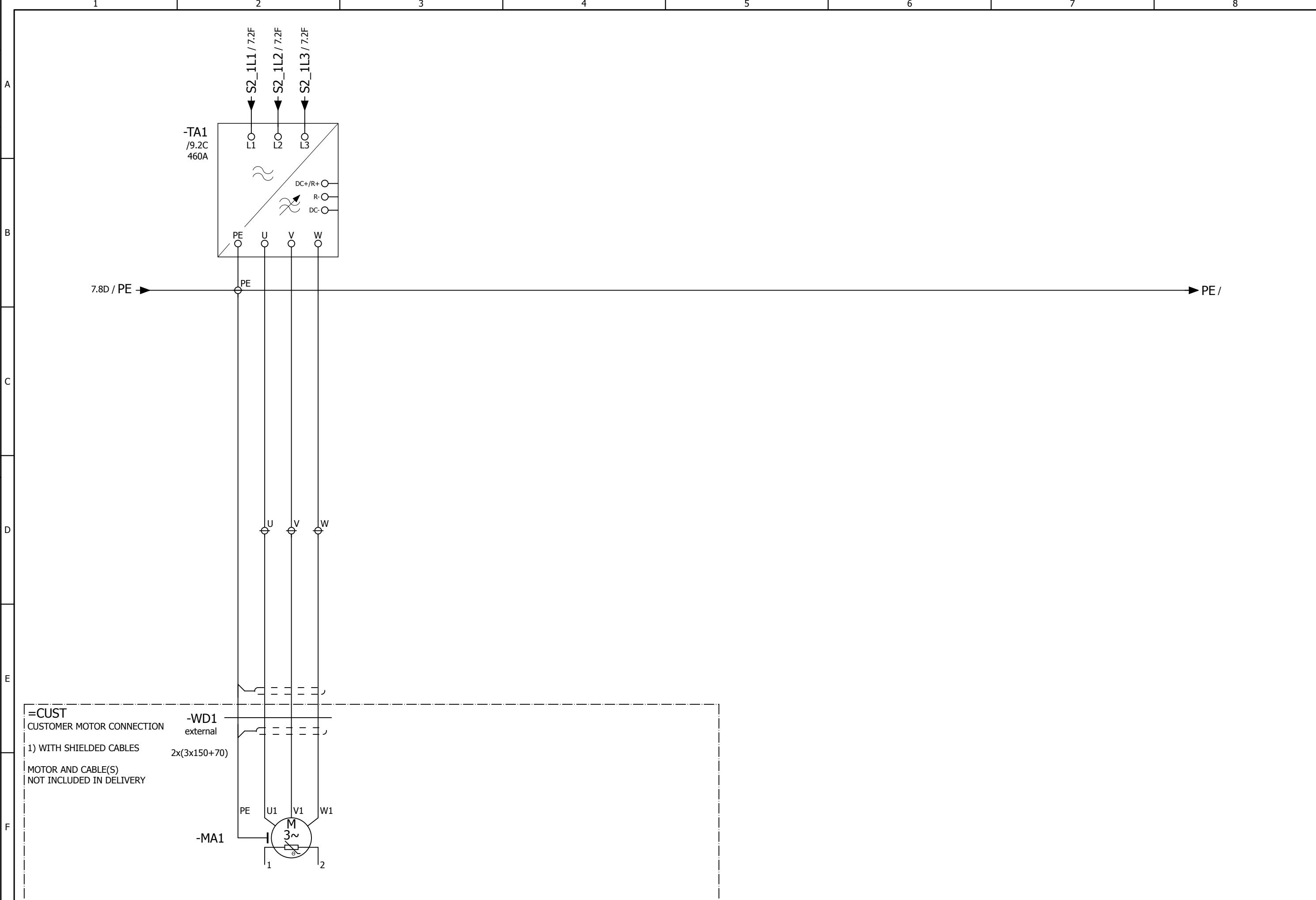
Project Id GBTOA-000384_3
 Project name
 Customer

Title Schematic multi-line
 VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
 OT+CAPT+CAPD+CIFF+CDLP+CPS1+GNUL

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End customer description

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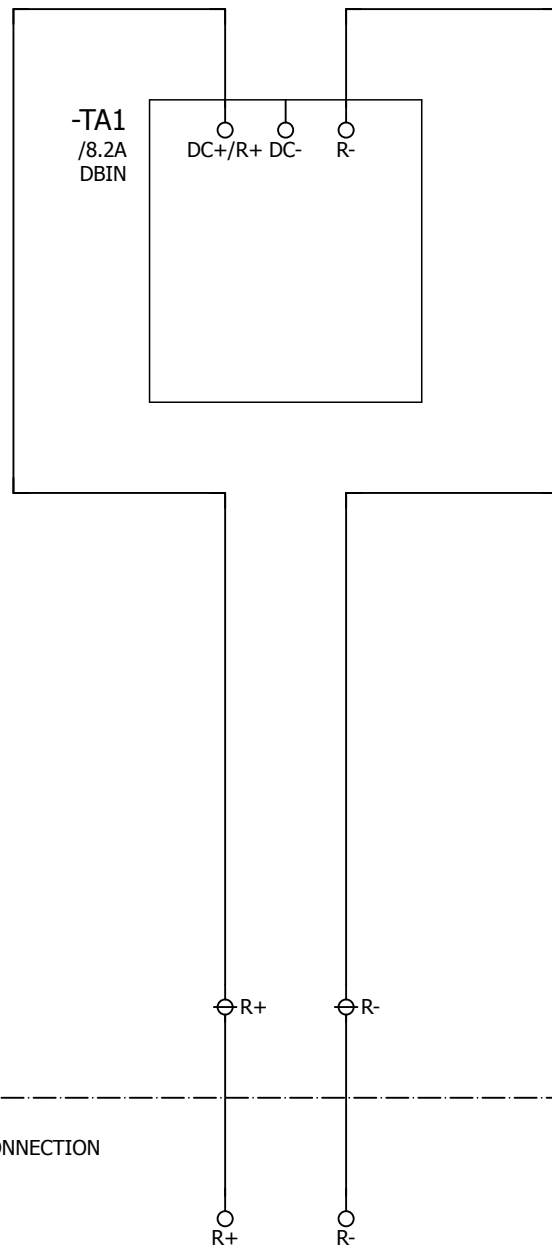
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 VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
 OT+CAPT+CAPD+CIFD+CDLP+CPS1+GNUL

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 Approved
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INTEGRATED BRAKE CHOPPER



CUST
CUSTOMER BRAKE RESISTORS CONNECTION
NOT INCLUDED IN DELIVERY



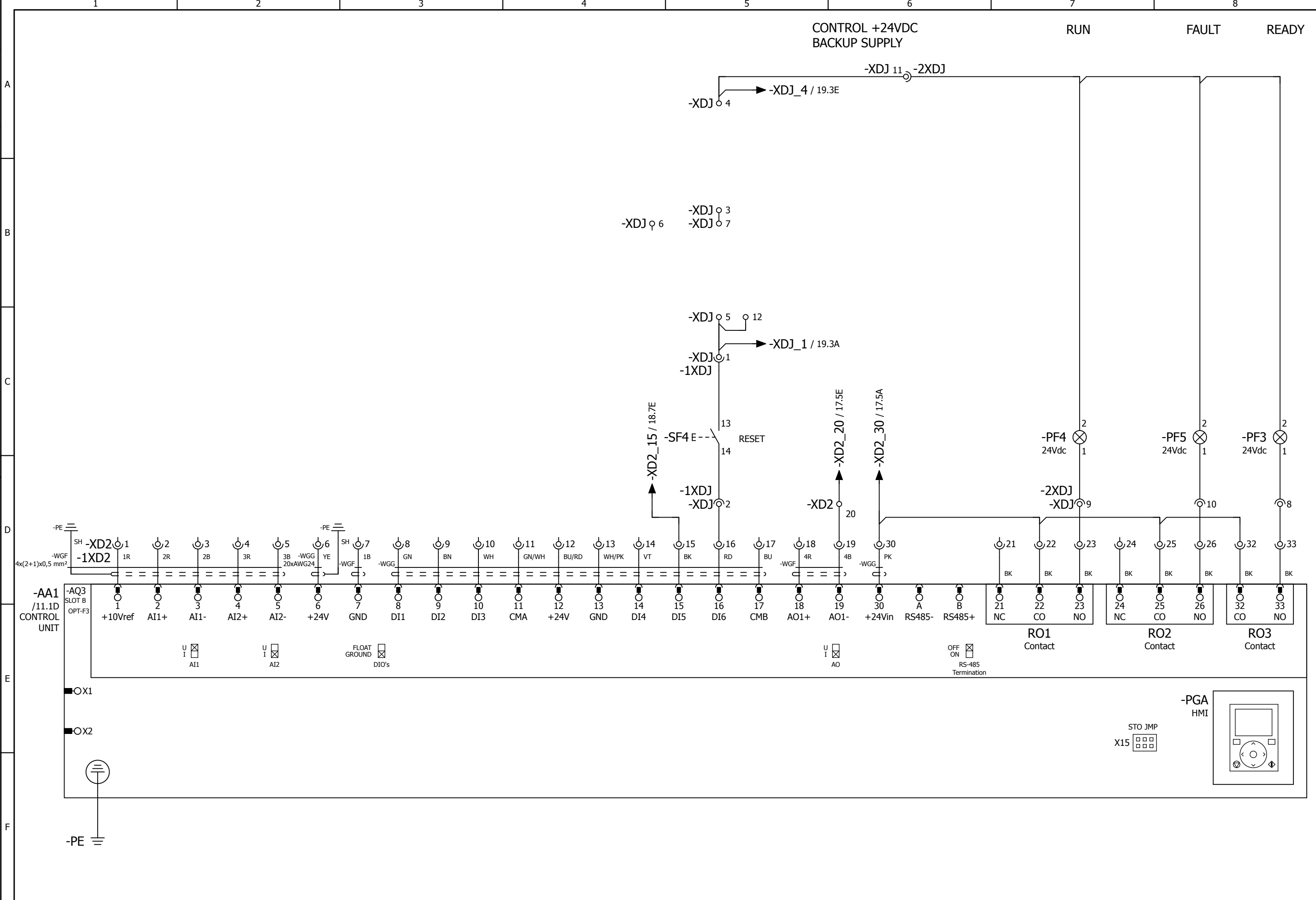
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Title Schematic multi-line
VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
OT+CAPT+CAPD+CIFD+CDLP+CPS1+GNUL

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A

B

C

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E

F

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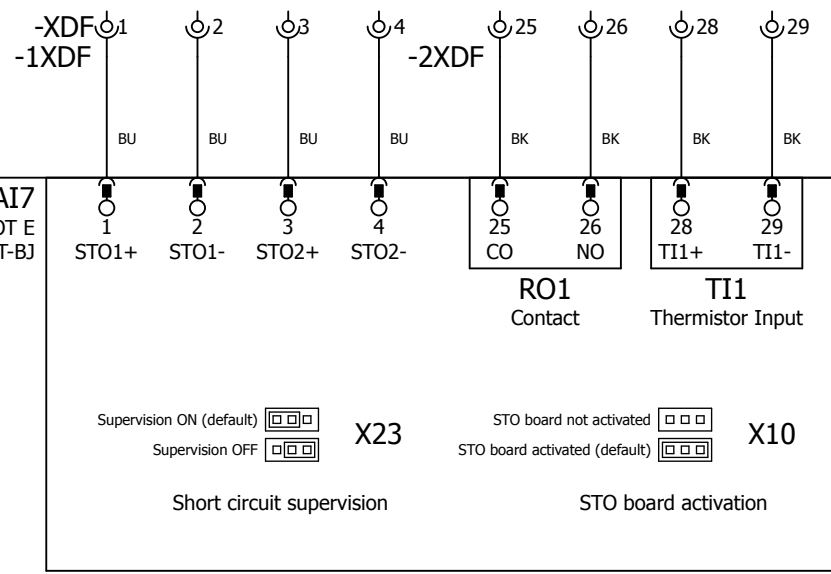
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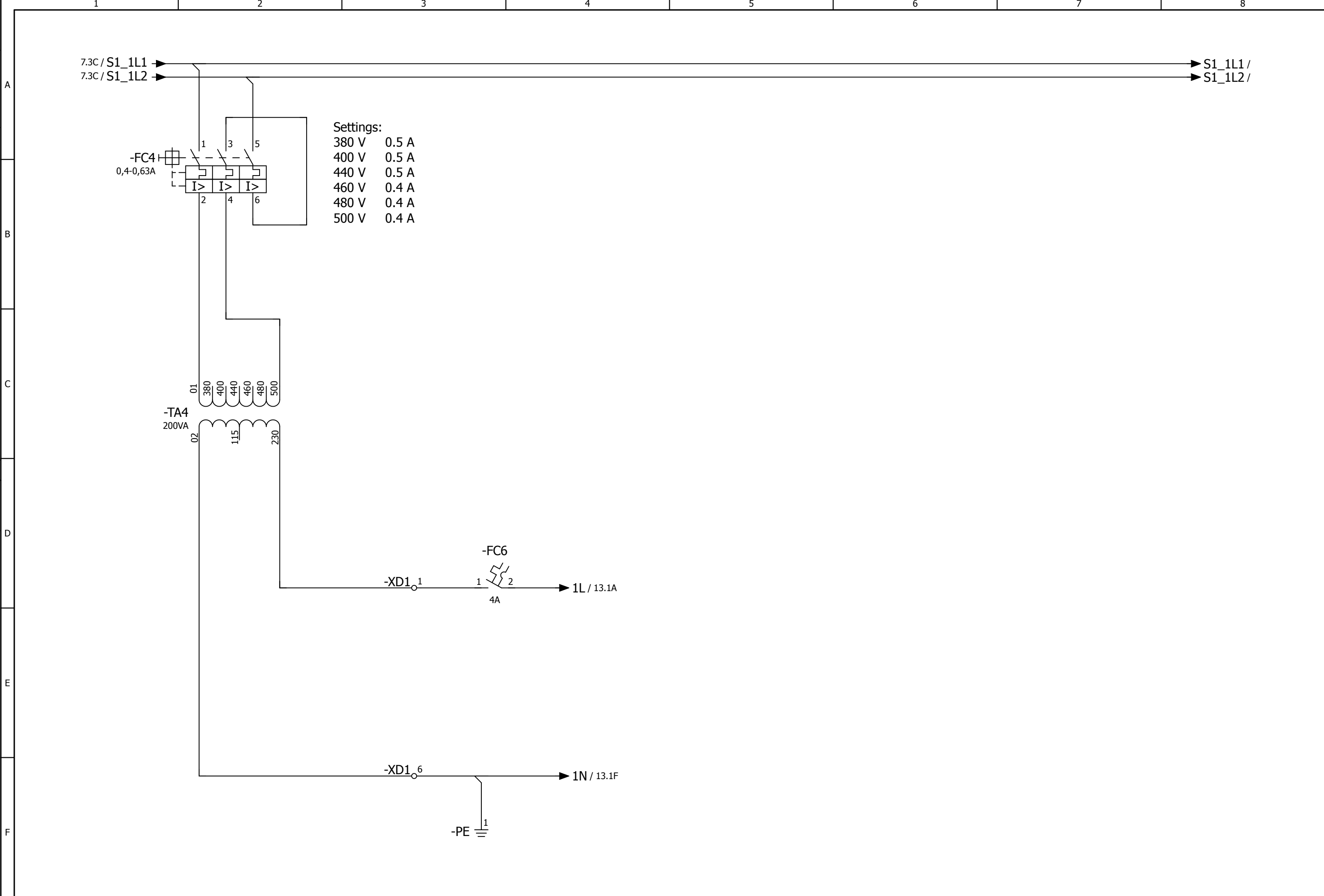
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-AA1
/10.1D
CONTROL
UNIT

-AI7
SLOT E
OPT-BJ





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Title Schematic multi-line
 VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
 OT+CAPT+CAPD+CIJD+CDLP+CPS1+GNUL

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A

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C

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E

F

A

B

C

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F

12.4D / 1L



-XD1_2



1L / 14.1A

12.4F / 1N



-XD1_7



1N / 14.1F



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Title Schematic multi-line
VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
OT+CAPT+CAPD+CIFD+CDLP+CPS1+GNUL

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1 2 3 4 5 6 7 8

A

13.8A / 1L

-XD1₃

1L / 15.1A

B

C

D

E

F

A

B

C

D

E

F

13.8F / 1N

-XD1₈

1N / 15.1F



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Customer

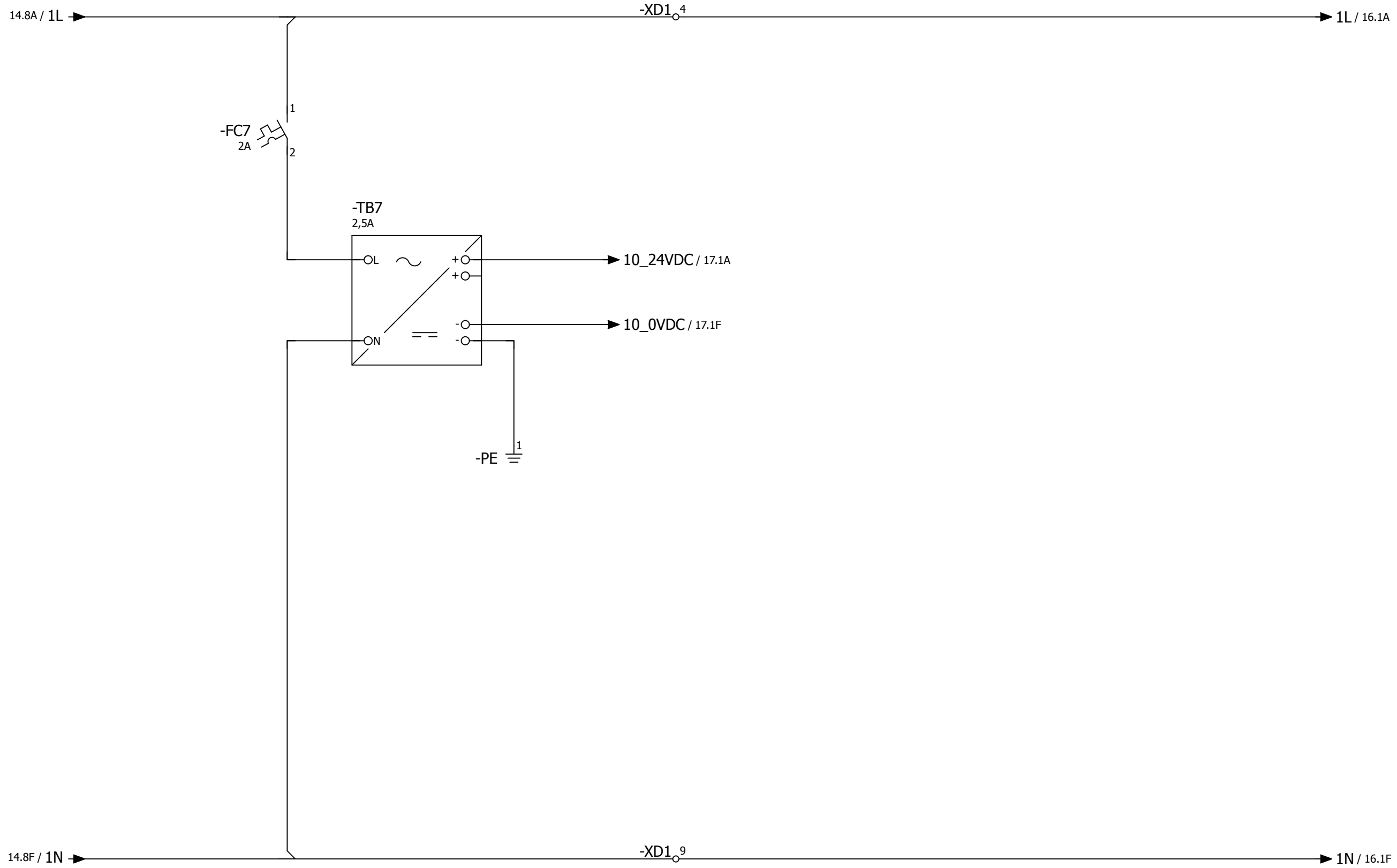
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VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
OT+CAPT+CAPD+CIFD+CDLP+CPS1+GNUL

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External doc. Id

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24VDC POWER SUPPLY



15.8A / 1L →

-XD1₀⁵

15.8F / 1N →

-XD1₀¹⁰

A

B

C

D

E

F

A

B

C

D

E

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Project Id GBTOA-000384_3
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 Customer

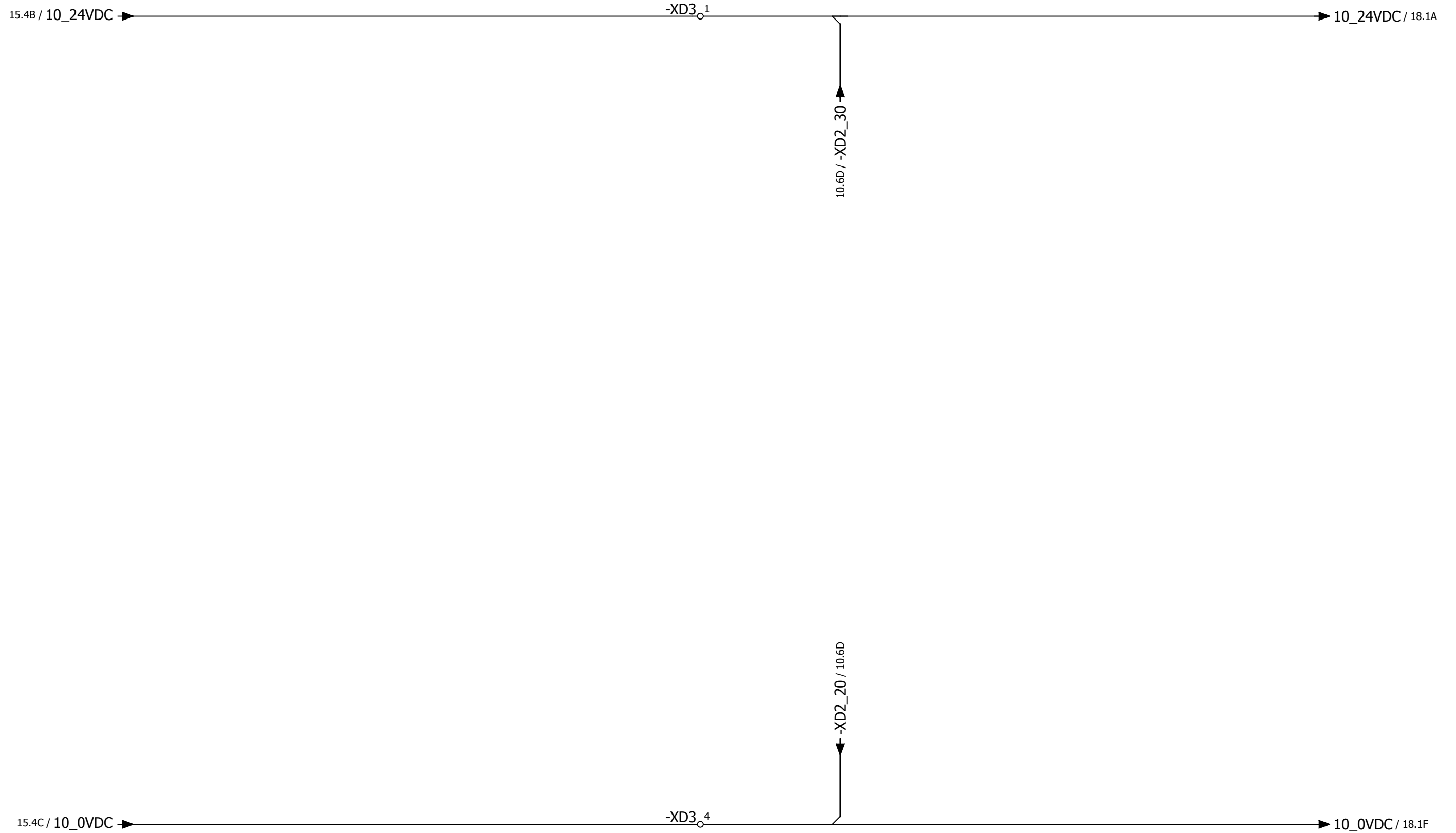
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 OT+CAPT+CAPD+CIFD+CDLP+CPS1+GNUL

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CONTROL 24VDC BACKUP POWER SUPPLY



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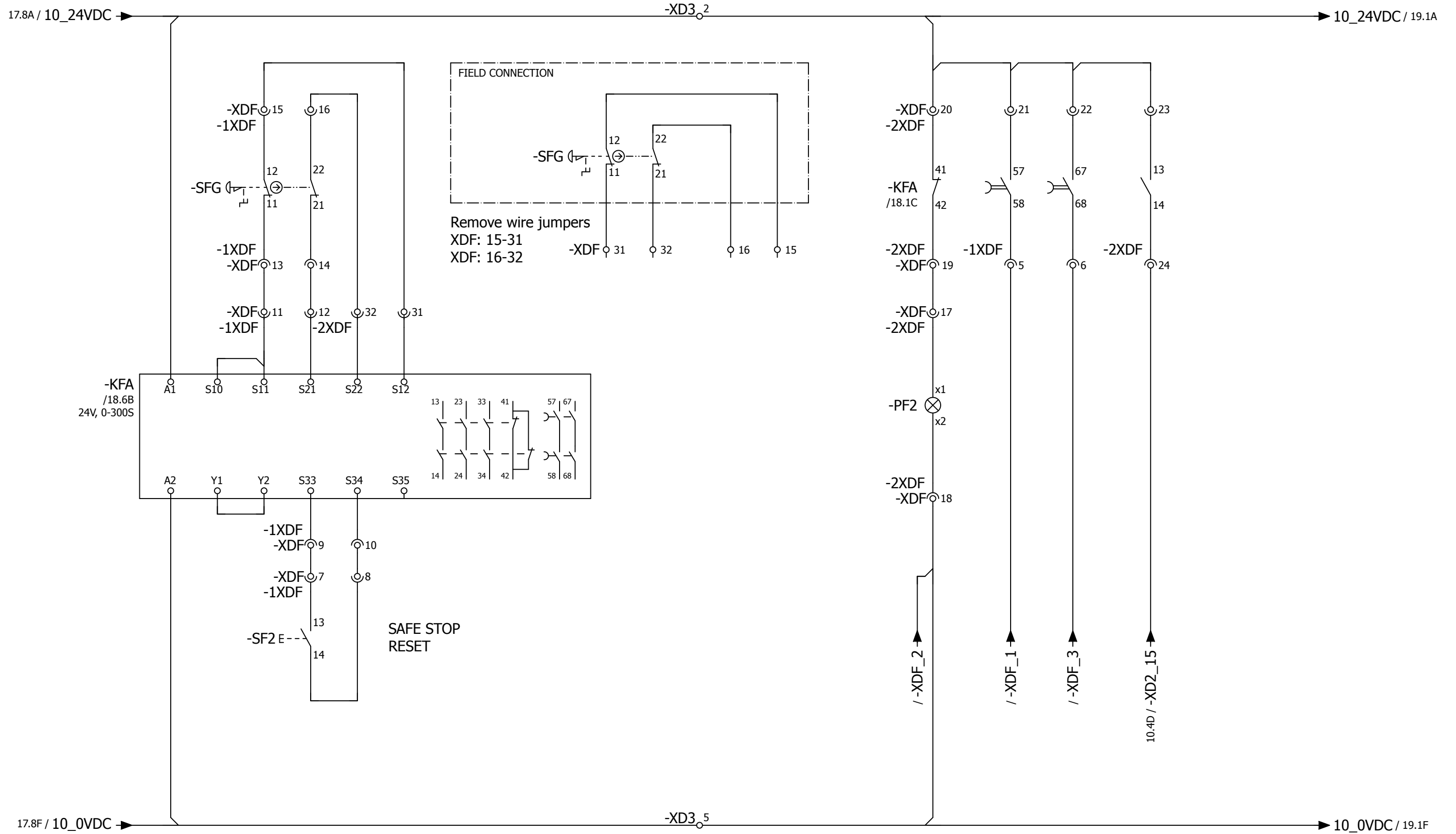
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 OT+CAPT+CAPD+CIJD+CDLP+CPS1+GNUL

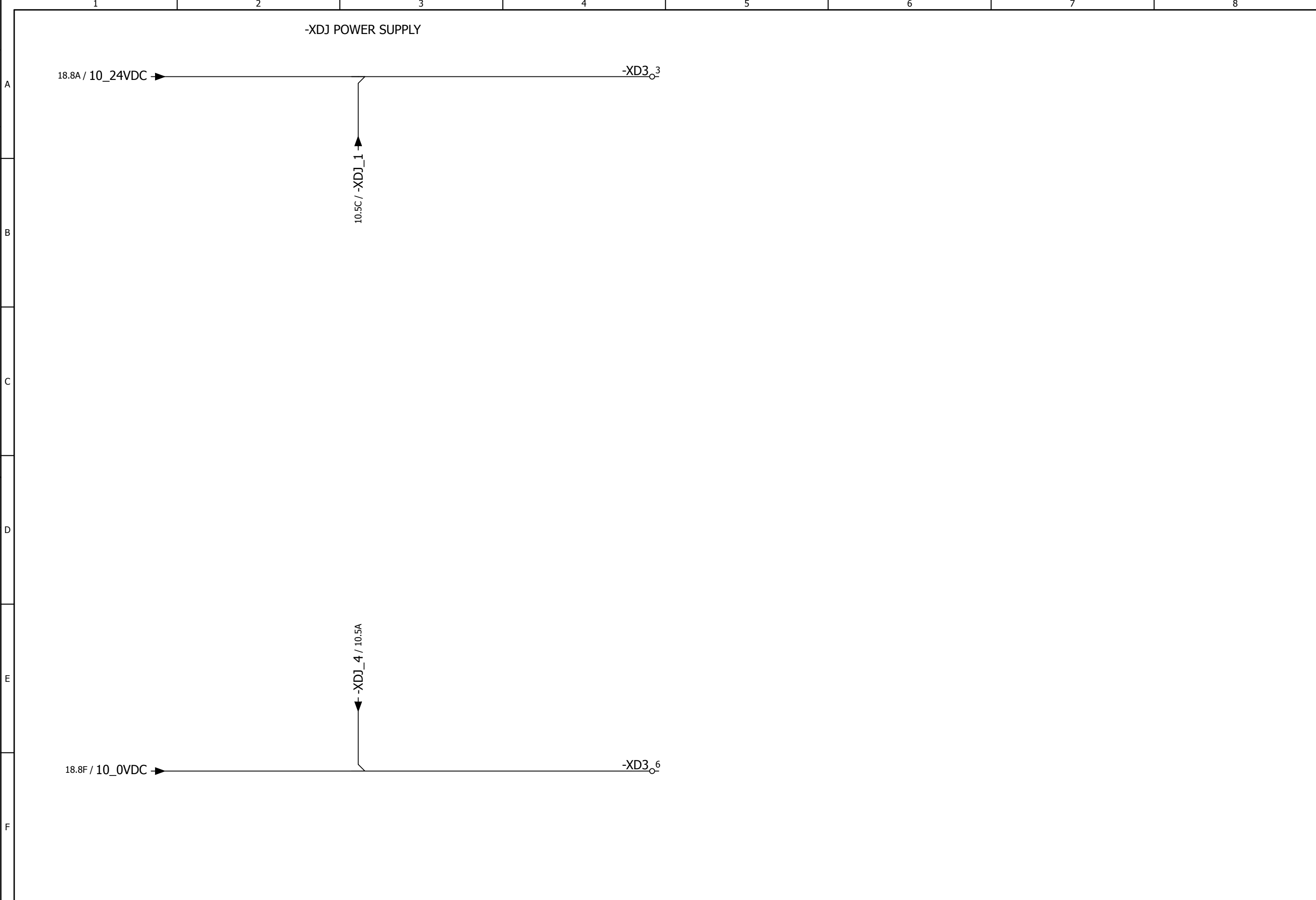
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SAFETY RELAY





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Title Schematic multi-line
 VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
 OT+CAPT+CAPD+CIFD+CDLP+CPS1+GNUL

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 External doc. Id

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Terminal diagram

Vacon_F13_003

Strip
=TAD+SML-XD1

Cable name		Strip =TAD+SML-XD1										Cable name		Function text		Page / column
Cable type	Conductor color	Conductor designation	Conductor Ø	Target designation	Connection point	Terminal	Level	Connection point	Target designation	Conductor Ø	Conductor designation	Conductor color	cable type	Function text	Page / column	
	red		16 AWG	-TA4	230	1		1	-FC6	16		red			/12.3D	
	red		16 AWG	-FC6	2	2									/13.4A	
						3									/14.4A	
	red		16 AWG	-FC7	1	4									/15.4A	
						5									/16.4A	
	red		16 AWG	-TA4	02	6		1	-PE	16		green/yellow			/12.3F	
						7									/13.4F	
						8									/14.4F	
	red		16 AWG	-TB7	N	9									/15.4F	
						10									/16.4F	



Project Id GBTOA-000384_3
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Title Terminal diagram
VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
OT+CAPT+CAPD+CIFD+CDLP+CPS1+GNUL

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Document Id =TAD+RPT2/20
External doc. Id

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Terminal diagram

Vacon_F13_003

Strip
=TAD+SML-XD2

Cable name		Strip =TAD+SML-XD2													Cable name		Function text	Page / column
Cable type	Conductor color	Conductor designation	Conductor Ø	Target designation	Connection point	Terminal	Level	Connection point	Target designation	Conductor Ø	Conductor designation	Conductor color	cable type	Function text	Page / column			
						.	1									/10.1D		
						.	2									/10.1D		
						.	3									/10.2D		
						.	4									/10.2D		
						.	5									/10.2D		
						.	6									/10.2D		
						.	7									/10.3D		
						.	8									/10.3D		
						.	9									/10.3D		
						.	10									/10.3D		
						.	11									/10.4D		
						.	12									/10.4D		
						.	13									/10.4D		
						.	14									/10.4D		
			blue	20 AWG	-XDF	24	.	15								/10.5D		
			blue	20 AWG	-XDJ	2	.	16								/10.5D		
							.	17								/10.5D		
							.	18								/10.5D		
							.	19								/10.6D		
			blue	16 AWG	-XD3	4	.	20								/10.6D		



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Title Terminal diagram
VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
OT+CAPT+CAPD+CIFD+CDLP+CPS1+GNUL

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Terminal diagram

Vacon_F13_003

Strip
=TAD+SML-XD2

Cable name		Strip =TAD+SML-XD2													Cable name		Page / column	
Cable type	Conductor color	Conductor designation	Conductor Ø	Target designation	Connection point	Terminal	Level	Connection point	Target designation	Conductor Ø	Conductor designation	Conductor color	cable type	Function text	Page / column			
	blue		16 AWG	-XD3	1	30									/10.6D			
						21									/10.7D			
						22									/10.7D			
	blue		20 AWG	-XDJ	9	23									/10.7D			
						24									/10.7D			
						25									/10.8D			
	blue		20 AWG	-XDJ	10	26									/10.8D			
						28								NC	/10			
						29								NC	/10			
						32									/10.8D			
	blue		20 AWG	-XDJ	8	33									/10.8D			

E

F



Project Id GBTOA-000384_3
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Title Terminal diagram
VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
OT+CAPT+CAPD+CIFD+CDLP+CPS1+GNUL

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End customer description

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Terminal diagram

Vacon_F13_003

Strip
=TAD+SML-XD3

Cable name		Strip =TAD+SML-XD3													Cable name		Function text		Page / column
Cable type	Conductor color	Conductor designation	Conductor Ø	Target designation	Connection point	Terminal	Level	Connection point	Target designation	Conductor Ø	Conductor designation	Conductor color	cable type	Function text		Page / column			
	blue		16 AWG	-XD2	30	1		+	-TB7	16		blue				/17.4A			
	blue		16 AWG	-XDF	20	2		A1	-KFA	16		blue				/18.4A			
	blue		16 AWG	-XDJ	1	3										/19.4A			
	blue		16 AWG	-XD2	20	4		-	-TB7	16		blue				/17.4F			
	blue		16 AWG	-XDF	18	5		A2	-KFA	16		blue				/18.4F			
	blue		16 AWG	-XDJ	4	6										/19.4F			

Terminal diagram

Vacon_F13_003

Strip
=TAD+SML-XDF

Cable name		Strip =TAD+SML-XDF													Cable name		Function text		Page / column
Cable type	Conductor color	Conductor designation	Conductor Ø	Target designation	Connection point	Terminal	Level	Connection point	Target designation	Conductor Ø	Conductor designation	Conductor color	cable type	Function text		Page / column			
						1										/11.4D			
						2										/11.4D			
						3										/11.4D			
						4										/11.4D			
						5	1									/18.6B			
						25										/11.5D			
						6	2									/18.6B			
						26										/11.5D			
						27										/11			
						7	1	•								/18.2D			
						28		•								/11.5D			
						8	2	•								/18.3D			
						29		•								/11.5D			
						30		•								/11			
						9	1	•								/18.2D			
						10	2	•								/18.3D			
						11	1	•								/18.2C			
						12	2	•								/18.2C			
						13	1	•								/18.2B			
						14	2	•								/18.2B			



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Title Terminal diagram
VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
OT+CAPT+CAPD+CIFD+CDLP+CPS1+GNUL

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External doc. Id

End customer description

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Terminal diagram

Vacon_F13_003

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Cable name		Strip =TAD+SML-XDF													Cable name		Function text		Page / column
Cable type	Conductor color	Conductor designation	Conductor Ø	Target designation	Connection point	Terminal	Level	Connection point	Target designation	Conductor Ø	Conductor designation	Conductor color	cable type	Function text		Page / column			
	blue		20 AWG	-XDF	31	15										/18.2A			
	blue		20 AWG	-XDF	32	16										/18.2A			
						17										/18.6C			
	blue		16 AWG	-XD3	5	18	3									/18.6D			
						19										/18.6B			
	blue		16 AWG	-XD3	2	20										/18.6A			
						21										/18.6A			
						22										/18.6A			
						23										/18.7A			
	blue		20 AWG	-XD2	15	24										/18.7B			
	blue		20 AWG	-XDF	15	31										/18.3C			
	blue		20 AWG	-XDF	16	32										/18.3C			

E

F

Terminal diagram

Vacon_F13_003

Strip
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Cable name		Strip =TAD+SML-XDJ														Cable name		Function text	Page / column
Cable type	Conductor color	Conductor designation	Conductor Ø	Target designation	Connection point	Terminal	Level	Connection point	Target designation	Conductor Ø	Conductor designation	Conductor color	cable type						
	blue		16 AWG	-XD3	3	1	1											/10.5C	
	blue		20 AWG	-XD2	16	2												/10.5D	
						3	2											/10.5B	
	blue		16 AWG	-XD3	6	4	3											/10.5A	
						5	1											/10.5C	
						6												/10.4B	
						7	2											/10.5B	
	blue		20 AWG	-XD2	33	8												/10.8D	
	blue		20 AWG	-XD2	23	9												/10.7D	
	blue		20 AWG	-XD2	26	10												/10.8D	
						11	3											/10.6A	
						12	1											/10.5C	
						13												/10	
						14												/10	

Internal power wire / busbar / Harness connection list (Internal)

Vacon_F27_003_Internal

Connection	Target 1	Target 2	Color	Cross-section								
+SML-1L1	+SML/7.2B	+SML-QB1:1	+SML/7.2C	Cu/Sn	40x5 mm ²		+SML-KFA:57	+SML/18.6B	+SML-2XDF:21	+SML/18.6B	BU	20 AWG
+SML-1L2	+SML/7.2B	+SML-QB1:3	+SML/7.2C	Cu/Sn	40x5 mm ²		+SML-KFA:58	+SML/18.6B	+SML-1XDF:5	+SML/18.6B	BU	20 AWG
+SML-1L3	+SML/7.2B	+SML-QB1:5	+SML/7.2C	Cu/Sn	40x5 mm ²		+SML-KFA:67	+SML/18.6B	+SML-2XDF:22	+SML/18.6B	BU	20 AWG
+SML-AI7-RO1:25	+SML/11.5D	+SML-2XDF:25	+SML/11.5D	BK	20 AWG		+SML-KFA:68	+SML/18.6B	+SML-1XDF:6	+SML/18.6B	BU	20 AWG
+SML-AI7-RO1:26	+SML/11.5D	+SML-2XDF:26	+SML/11.5D	BK	20 AWG		+SML-KFA:A1	+SML/18.2C	+SML-XD3:2	+SML/18.4A	BU	16 AWG
+SML-AI7-TI1:28	+SML/11.5D	+SML-2XDF:28	+SML/11.5D	BK	20 AWG		+SML-KFA:A2	+SML/18.2D	+SML-XD3:5	+SML/18.4F	BU	16 AWG
+SML-AI7-TI1:29	+SML/11.5D	+SML-2XDF:29	+SML/11.5D	BK	20 AWG		+SML-KFA:S11	+SML/18.2C	+SML-1XDF:11	+SML/18.2C	BU	20 AWG
+SML-AI7:1	+SML/11.4D	+SML-1XDF:1	+SML/11.4D	BU	20 AWG		+SML-KFA:S12	+SML/18.3C	+SML-2XDF:31	+SML/18.3C	BU	20 AWG
+SML-AI7:2	+SML/11.4D	+SML-1XDF:2	+SML/11.4D	BU	20 AWG		+SML-KFA:S21	+SML/18.2C	+SML-1XDF:12	+SML/18.2C	BU	20 AWG
+SML-AI7:3	+SML/11.4D	+SML-1XDF:3	+SML/11.4D	BU	20 AWG		+SML-KFA:S22	+SML/18.3C	+SML-2XDF:32	+SML/18.3C	BU	20 AWG
+SML-AI7:4	+SML/11.4D	+SML-1XDF:4	+SML/11.4D	BU	20 AWG		+SML-KFA:S33	+SML/18.2D	+SML-1XDF:9	+SML/18.2D	BU	20 AWG
+SML-AQ3-RO1:22	+SML/10.7D	+SML-1XD2:22	+SML/10.7D	BK	20 AWG		+SML-KFA:S34	+SML/18.3D	+SML-1XDF:10	+SML/18.3D	BU	20 AWG
+SML-AQ3-RO1:23	+SML/10.7D	+SML-1XD2:23	+SML/10.7D	BK	20 AWG		+SML-PE	+SML/8.2B	+SML-TA1:PE	+SML/8.2B	GNYE	16 mm ²
+SML-AQ3-RO2:24	+SML/10.7D	+SML-1XD2:24	+SML/10.7D	BK	20 AWG		+SML-PE:1	+SML/12.3F	+SML-XD1:6	+SML/12.3F	GNYE	16 AWG
+SML-AQ3-RO2:25	+SML/10.8D	+SML-1XD2:25	+SML/10.8D	BK	20 AWG		+SML-PE:1	+SML/15.4C	+SML-TB7:-	+SML/15.3C	GNYE	16 AWG
+SML-AQ3-RO2:26	+SML/10.8D	+SML-1XD2:26	+SML/10.8D	BK	20 AWG		+SML-PF2:x1	+SML/18.6C	+SML-2XDF:17	+SML/18.6C	BU	20 AWG
+SML-AQ3-RO3:32	+SML/10.8D	+SML-1XD2:32	+SML/10.8D	BK	20 AWG		+SML-PF2:x2	+SML/18.6C	+SML-2XDF:18	+SML/18.6D	BU	20 AWG
+SML-AQ3-RO3:33	+SML/10.8D	+SML-1XD2:33	+SML/10.8D	BK	20 AWG		+SML-PF3:1	+SML/10.8C	+SML-2XDJ:8	+SML/10.8D	BU	20 AWG
+SML-FC4:1	+SML/12.2A	+SML-L1	+SML/7.2C	BK	16 AWG		+SML-PF3:2	+SML/10.8C	+SML-PF5:2	+SML/10.8C	BU	20 AWG
+SML-FC4:2	+SML/12.2A	+SML-TA4:01	+SML/12.2C	BK	16 AWG		+SML-PF4:1	+SML/10.7C	+SML-2XDJ:9	+SML/10.7D	BU	20 AWG
+SML-FC4:3	+SML/12.2A	+SML-FC4:6	+SML/12.2A	BK	16 AWG		+SML-PF4:2	+SML/10.7C	+SML-PF5:2	+SML/10.8C	BU	20 AWG
+SML-FC4:4	+SML/12.2A	+SML-TA4:500	+SML/12.2C	BK	16 AWG		+SML-PF4:2	+SML/10.7C	+SML-2XDJ:11	+SML/10.6A	BU	20 AWG
+SML-FC4:5	+SML/12.2A	+SML-L2	+SML/7.2C	BK	16 AWG		+SML-PF5:1	+SML/10.8C	+SML-2XDJ:10	+SML/10.8D	BU	20 AWG
+SML-FC6:1	+SML/12.3D	+SML-XD1:1	+SML/12.3D	RD	16 AWG		+SML-QB1:2	+SML/7.2C	+SML-TA1:L1	+SML/8.2A	Cu/Sn	40x5 mm ²
+SML-FC7:1	+SML/15.2B	+SML-XD1:4	+SML/15.4A	RD	16 AWG		+SML-QB1:4	+SML/7.2C	+SML-TA1:L2	+SML/8.2A	Cu/Sn	40x5 mm ²
+SML-FC7:2	+SML/15.2B	+SML-TB7:L	+SML/15.3B	RD	16 AWG		+SML-QB1:6	+SML/7.2C	+SML-TA1:L3	+SML/8.2A	Cu/Sn	40x5 mm ²
+SML-KFA:13	+SML/18.7B	+SML-2XDF:23	+SML/18.7B	BU	20 AWG	R+	+SML-R+	+SML/9.2F	+SML-TA1:DC+/R+	+SML/9.2C	Cu/Sn	40x5 mm ²
+SML-KFA:14	+SML/18.7B	+SML-2XDF:24	+SML/18.7B	BU	20 AWG	R-	+SML-R-	+SML/9.2F	+SML-TA1:R-	+SML/9.2C	Cu/Sn	40x5 mm ²
+SML-KFA:41	+SML/18.6B	+SML-2XDF:20	+SML/18.6B	BU	20 AWG		+SML-SF2:13	+SML/18.2E	+SML-1XDF:7	+SML/18.2D	BU	20 AWG
+SML-KFA:42	+SML/18.6B	+SML-2XDF:19	+SML/18.6B	BU	20 AWG		+SML-SF2:14	+SML/18.2E	+SML-1XDF:8	+SML/18.3D	BU	20 AWG



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Title Connection list
 VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
 OT+CAPT+CAPD+CIFD+CDLP+CPS1+GNUL

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Internal power wire / busbar / Harness connection list (Internal)

Vacon_F27_003_Internal

Connection	Target 1	Target 2	Color	Cross-section
+SML-SF4:13	+SML/10.5C	+SML-1XDJ:1	+SML/10.5C	BU 20 AWG
+SML-SF4:14	+SML/10.5C	+SML-1XDJ:2	+SML/10.5D	BU 20 AWG
+SML-SFG:11	+SML/18.2B	+SML-1XDF:13	+SML/18.2B	BU 20 AWG
+SML-SFG:12	+SML/18.2B	+SML-1XDF:15	+SML/18.2B	BU 20 AWG
+SML-SFG:21	+SML/18.2B	+SML-1XDF:14	+SML/18.2B	BU 20 AWG
+SML-SFG:22	+SML/18.2B	+SML-1XDF:16	+SML/18.2B	BU 20 AWG
+SML-TA1:U	+SML/8.2B	+SML-U	+SML/8.2D	Cu/Sn 40x5 mm ²
+SML-TA1:V	+SML/8.2B	+SML-V	+SML/8.2D	Cu/Sn 40x5 mm ²
+SML-TA1:W	+SML/8.2B	+SML-W	+SML/8.2D	Cu/Sn 40x5 mm ²
+SML-TA4:02	+SML/12.2C	+SML-XD1:6	+SML/12.3F	RD 16 AWG
+SML-TA4:230	+SML/12.2C	+SML-XD1:1	+SML/12.3D	RD 16 AWG
+SML-TB7:N	+SML/15.3C	+SML-XD1:9	+SML/15.4F	RD 16 AWG
+SML-XD2:15	+SML/10.5D	+SML-XDF:24	+SML/18.7B	BU 20 AWG
+SML-XD3:2	+SML/18.4A	+SML-XDF:20	+SML/18.6A	BU 16 AWG
+SML-XD3:5	+SML/18.4F	+SML-XDF:18	+SML/18.6D	BU 16 AWG
+SML-XDF:15	+SML/18.2A	+SML-XDF:31	+SML/18.3C	BU 20 AWG
+SML-XDF:16	+SML/18.2A	+SML-XDF:32	+SML/18.3C	BU 20 AWG



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 VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
 OT+CAPT+CAPD+CIFD+CDLP+CPS1+GNUL

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External /undefined connection list (Connection, general)

Vacon_F27_003_Undefined

Connection	Target 1	Target 2	Color	Cross-section
L1	L1	+SML/7.2A +SML-1L1	+SML/7.2B	mm ²
L2	L2	+SML/7.2A +SML-1L2	+SML/7.2B	mm ²
L3	L3	+SML/7.2A +SML-1L3	+SML/7.2B	mm ²
PE	PE	+SML/7.1A +SML-PE	+SML/7.1B	mm ²
R+	R+	+SML/9.2F +SML-R+	+SML/9.2F	mm ²
R-	R-	+SML/9.2F +SML-R-	+SML/9.2F	mm ²



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Title Connection list
 VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
 OT+CAPT+CAPD+CIFD+CDLP+CPS1+GNUL

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Parts list

Vacon_F01_003_ID_d

Device tag	Quantity	Designation	Type number	Manufacturer	Part ID	Pos
Placement			Order number	Supplier	Spare part number / Type	
-AA1 +SML/10.1D	1	CONTROL UNIT	VACON 100 CONTROL UNIT	VACON VAC		
-AI7 +SML/11.3D	1	V100, STO / ATEX Board	V100 OPT-BJ	VACON VAC		
-AQ3 +SML/10.1D	1	V100, Basic I/O Board	V100 OPT-F3	VACON VAC		
-FC4 +SML/12.2A	1	THERMAL MAGNETIC CIRCUIT BREAKER	GV2RT04	SCHNEIDER ELECTRIC SCH	PP23058 SPR-ELE13929	
-FC6 +SML/12.3D	1	MINIATURE CIRCUIT BREAKER	iC60N 1P C4 6kA A9F04104	SCHNEIDER ELECTRIC SCH	PP23048 60S00710	
-FC7 +SML/15.2B	1	MINIATURE CIRCUIT BREAKER	iC60N 1P C2 6kA A9F74102	SCHNEIDER ELECTRIC SCH	PP23050	
-KFA +SML/18.1C	1	SAFETY RELAY	PSR-SCP-24DC/ESD/5X1/1X2/300 2981428	PHOENIX CONTACT PXC	SPR-ELE13925	
-PF3 +SML/10.8C	1	INDICATION LAMP-WHITE, 24V AC/DC	XB5-AVB1 XB5-AVB1	SCHNEIDER ELECTRIC SCH		
-PF4 +SML/10.7C	1	INDICATION LAMP-GREEN, 24V AC/DC	XB5-AVB3 XB5-AVB3	SCHNEIDER ELECTRIC SCH	70CPE06978	
-PF5 +SML/10.8C	1	INDICATION LAMP-RED, 24V AC/DC	XB5-AVB4 XB5-AVB4	SCHNEIDER ELECTRIC SCH		
-PGA +SML/10.8E	1	CONTROL PANEL	VACON 100 KEYPAD 70CMR00266	VACON VAC		
-QB1 +SML/7.2C	1	SWITCH FUSE	OS630D30P 1SCA022835R8310	ABB ABB	SPR-ELE13938	
-QB1 +SML/7.2C	3	FUSE 900 A	6,9 URD 3 PV 0900 NH3UD69V900PV	MERSEN MER	SPR-ELE13986	
-SF2 +SML/18.2E	1	BLUE ILLUMINATED PUSHBUTTON	XB5-AW36B5 23 216 85	SCHNEIDER ELECTRIC SCH		
-SF4 +SML/10.5C	1	BLUE PUSHBUTTON WITH NO	XB5-AA61 XB5-AA61	SCHNEIDER ELECTRIC SCH		
-SFG +SML/18.2B	1	EMERGENCY STOP PUSHBUTTON	XB5-AS8444 XB5-AS8444	SCHNEIDER ELECTRIC SCH	60S00640	
-SFG +SML/18.2B	1	EMERGENCY STOP -LABEL	ZBY 9320 ZBY 9320	SCHNEIDER ELECTRIC SCH		
-TA1 +SML/8.2A	1	Power module, MR10B / 250 kW, IP00	VACON 100-3L-0460-5	VACON VAC		



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Title Parts list
VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
OT+CAPT+CAPD+CIFD+CDLP+CPS1+GNUL

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Parts list

Vacon_F01_003_ID_d

Device tag Placement	Quantity	Designation	Type number Order number	Manufacturer Supplier	Part ID Spare part number / Type	Pos
-TA4 +SML/12.2C	1	TRANSFORMER 500-480-460-440-400-380/115-230V	04-31250B 04-31250B	TRAFOMIC	70CPE04231	
-TB7 +SML/15.3B	1	POWER SUPPLY	UNO-PS-60-24 2902992	PHOENIX CONTACT PXC	SPR-ELE13927	
-XD1 +SML/12.3D	5	DOUBLE-DECK THROUGH/THROUGH TB	2002-2201 2002-2201	WAGO WAGO		
-XD2 +SML/10.1D	31	1-CONDUCTOR/1 PIN DOUBLE DECK TB L/L	2022-2201 2022-2201	WAGO WAGO		
-XD3 +SML/17.4A	3	DOUBLE-DECK THROUGH/THROUGH TB	2002-2201 2002-2201	WAGO WAGO		
-XDF +SML/11.4D	1	1-CONDUCTOR/1 PIN DOUBLE DECK TB L/L	2022-2201 2022-2201	WAGO WAGO		
-XDF +SML/11.4D	15	2-CONDUCTOR/2 PIN DOUBLE DECK TB L	2022-2208 2022-2208	WAGO WAGO		
-XDJ +SML/10.4B;+SML/10.5C	5	1-CONDUCTOR/1 PIN DOUBLE DECK TB L/L	2022-2201 2022-2201	WAGO WAGO		
-XDJ +SML/10.5A	2	2-CONDUCTOR/2 PIN DOUBLE DECK TB L	2022-2208 2022-2208	WAGO WAGO		



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Title Parts list
VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
OT+CAPT+CAPD+CIFD+CDLP+CPS1+GNUL

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Cable overview

Vacon_F10_003_b

Cable designation	from	to	cable type	Condctrs	∅	Length	Remark
+SML-WGF	+SML-1XD2	+SML-AQ3	4x(2+1)x0,5 mm ²	8	0,5		
	+SML-PE						
+SML-WGG	+SML-1XD2	+SML-AQ3	20xAWG24	20	24		
	+SML-PE						



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Title Cable overview
 VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
 OT+CAPT+CAPD+CIJD+CDLP+CPS1+GNUL

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Cable diagram

Cable name =TAD+SML-WGF			Cable type 4x(2+1)x0,5 mm ²					
Remark			No. of conductors 8			Cross-section 0,5		Cable length
	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
	/10.1D	-1XD2	1	1R	-AQ3	1	/10.1D	+10Vref
	/10.3D	-1XD2	7	1B	-AQ3	7	/10.3D	GND
	/10.1D	-1XD2	2	2R	-AQ3	2	/10.1D	AI1+
	/10.2D	-1XD2	3	2B	-AQ3	3	/10.2D	AI1-
	/10.2D	-1XD2	4	3R	-AQ3	4	/10.2D	AI2+
	/10.2D	-1XD2	5	3B	-AQ3	5	/10.2D	AI2-
	/10.5D	-1XD2	18	4R	-AQ3	18	/10.5D	AO1+
	/10.6D	-1XD2	19	4B	-AQ3	19	/10.6D	AO1-
	/10.1D	-PE		SH	-WGF	SH	/10.1D	
Cable name =TAD+SML-WGG			Cable type 20xAWG24					
Remark			No. of conductors 20			Cross-section 24		Cable length
	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
	/10.2D	-1XD2	6	YE	-AQ3	6	/10.2D	+24V
	/10.3D	-1XD2	8	GN	-AQ3	8	/10.3D	DI1
	/10.3D	-1XD2	9	BN	-AQ3	9	/10.3D	DI2
	/10.3D	-1XD2	10	WH	-AQ3	10	/10.3D	DI3
	/10.4D	-1XD2	11	GN/WH	-AQ3	11	/10.4D	CMA
	/10.4D	-1XD2	12	BU/RD	-AQ3	12	/10.4D	+24V
	/10.4D	-1XD2	13	WH/PK	-AQ3	13	/10.4D	GND
	/10.4D	-1XD2	14	VT	-AQ3	14	/10.4D	DI4
	/10.5D	-1XD2	15	BK	-AQ3	15	/10.5D	DI5
	/10.5D	-1XD2	16	RD	-AQ3	16	/10.5D	DI6
	/10.5D	-1XD2	17	BU	-AQ3	17	/10.5D	CMB
	/10.6D	-1XD2	30	PK	-AQ3	30	/10.6D	+24Vin
				GY				
				GY/PK				

Cable diagram

Cable name =TAD+SML-WGG			Cable type 20xAWG24						
Remark			No. of conductors 20			Cross-section 24		Cable length	
	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text	
				GY/BN					
				WH/GY					
				YE/BN					
				WH/YE					
				WH/BU					
				PK/BN					
	/10.2D	-PE		SH	-WGG	SH	/10.2D		



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Title Cable diagram
 VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
 OT+CAPT+CAPD+CIJD+CDLP+CPS1+GNUL

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Plug diagram

Vacon_F22_001

plug	notes	left connections				contact	right connections				Page / column
		target designation	color	wire design.	∅		∅	wire design.	color	target designation	
=TAD+SML-1XD2						1	0,5 mm ²		1R	-AQ3:1	/10.1D
						2	0,5 mm ²		2R	-AQ3:2	/10.1D
						3	0,5 mm ²		2B	-AQ3:3	/10.2D
						4	0,5 mm ²		3R	-AQ3:4	/10.2D
						5	0,5 mm ²		3B	-AQ3:5	/10.2D
						6	24 AWG		yellow	-AQ3:6	/10.2D
						7	0,5 mm ²		1B	-AQ3:7	/10.3D
						8	24 AWG		green	-AQ3:8	/10.3D
						9	24 AWG		brown	-AQ3:9	/10.3D
						10	24 AWG		white	-AQ3:10	/10.3D
						11	24 AWG		GN/WH	-AQ3:11	/10.4D
						12	24 AWG		BU/RD	-AQ3:12	/10.4D
						13	24 AWG		WH/PK	-AQ3:13	/10.4D
						14	24 AWG		violet	-AQ3:14	/10.4D
						15	24 AWG		black	-AQ3:15	/10.5D
						16	24 AWG		red	-AQ3:16	/10.5D
						17	24 AWG		blue	-AQ3:17	/10.5D
						18	0,5 mm ²		4R	-AQ3:18	/10.5D
						19	0,5 mm ²		4B	-AQ3:19	/10.6D
						30	24 AWG		pink	-AQ3:30	/10.6D
						21	20 AWG		black	-AQ3-RO1:21	/10.7D
						22	20 AWG		black	-AQ3-RO1:22	/10.7D
						23	20 AWG		black	-AQ3-RO1:23	/10.7D
						24	20 AWG		black	-AQ3-RO2:24	/10.7D
						25	20 AWG		black	-AQ3-RO2:25	/10.8D
						26	20 AWG		black	-AQ3-RO2:26	/10.8D
						32	20 AWG		black	-AQ3-RO3:32	/10.8D
						33	20 AWG		black	-AQ3-RO3:33	/10.8D



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Title Plug diagram
 VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
 OT+CAPT+CAPD+CIFD+CDLP+CPS1+GNUL

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Plug diagram

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plug	notes	left connections				contact	right connections				Page / column
		target designation	color	wire design.	∅		∅	wire design.	color	target designation	
=TAD+SML-1XDF						1	20 AWG		blue	-AI7:1	/11.4D
						5	20 AWG		blue	-KFA:58	/18.6B
						3	20 AWG		blue	-AI7:3	/11.4D
						6	20 AWG		blue	-KFA:68	/18.6B
						2	20 AWG		blue	-AI7:2	/11.4D
						7	20 AWG		blue	-SF2:13	/18.2D
						4	20 AWG		blue	-AI7:4	/11.4D
						8	20 AWG		blue	-SF2:14	/18.3D
						9	20 AWG		blue	-KFA:S33	/18.2D
						10	20 AWG		blue	-KFA:S34	/18.3D
						11	20 AWG		blue	-KFA:S11	/18.2C
						12	20 AWG		blue	-KFA:S21	/18.2C
						13	20 AWG		blue	-SFG:11	/18.2B
						14	20 AWG		blue	-SFG:21	/18.2B
						15	20 AWG		blue	-SFG:12	/18.2B
						16	20 AWG		blue	-SFG:22	/18.2B



Project Id GBTOA-000384_3
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Title Plug diagram
 VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
 OT+CAPT+CAPD+CIFD+CDLP+CPS1+GNUL

Prepared
 Approved
 Document Id =TAD+RPT2/36
 External doc. Id

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Plug diagram

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plug	notes	left connections				contact	right connections				Page / column
		target designation	color	wire design.	∅		∅	wire design.	color	target designation	
=TAD+SML-2XDF						25	20 AWG		black	-AI7-RO1:25	/11.5D
						26	20 AWG		black	-AI7-RO1:26	/11.5D
						28	20 AWG		black	-AI7-TI1:28	/11.5D
						29	20 AWG		black	-AI7-TI1:29	/11.5D
						21	20 AWG		blue	-KFA:57	/18.6B
						22	20 AWG		blue	-KFA:67	/18.6B
						17	20 AWG		blue	-PF2:x1	/18.6C
						18	20 AWG		blue	-PF2:x2	/18.6D
						19	20 AWG		blue	-KFA:42	/18.6B
						20	20 AWG		blue	-KFA:41	/18.6B
						23	20 AWG		blue	-KFA:13	/18.7B
						24	20 AWG		blue	-KFA:14	/18.7B
						31	20 AWG		blue	-KFA:S12	/18.3C
						32	20 AWG		blue	-KFA:S22	/18.3C



Project Id GBTOA-000384_3
 Project name
 Customer

Title Plug diagram
 VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
 OT+CAPT+CAPD+CIFD+CDLP+CPS1+GNUL

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 Approved
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 External doc. Id

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Plug diagram

Vacon_F22_001

plug	notes	left connections				contact	right connections				Page / column
		target designation	color	wire design.	∅		∅	wire design.	color	target designation	
=TAD+SML-1XDJ						1	20 AWG		blue	-SF4:13	/10.5C
						2	20 AWG		blue	-SF4:14	/10.5D



Project Id GBTOA-000384_3
 Project name
 Customer

Title Plug diagram
 VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
 OT+CAPT+CAPD+CIJD+CDLP+CPS1+GNUL

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Plug diagram

Vacon_F22_001

plug	notes	left connections				contact	right connections				Page / column
		target designation	color	wire design.	Ø		Ø	wire design.	color	target designation	
=TAD+SML-2XDJ						8	20 AWG		blue	-PF3:1	/10.8D
						9	20 AWG		blue	-PF4:1	/10.7D
						10	20 AWG		blue	-PF5:1	/10.8D
						11	20 AWG		blue	-PF4:2	/10.6A



Project Id GBTOA-000384_3
 Project name
 Customer

Title Plug diagram
 VACON0100-3L-0460-5-ED+SEBJ+IP54+DBIN+WT03+DN
 OT+CAPT+CAPD+CIFD+CDLP+CPS1+GNUL

Prepared
 Approved
 Document Id =TAD+RPT2/39
 External doc. Id

End customer description

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