

THIS DRAWING OR MATERIAL IS PROPRIETARY, AND IS SUBMITTED TO YOU IN CONFIDENCE. IT SHOULD BE USED ONLY FOR YOUR INFORMATION OR APPLICATION ENGINEERING STUDIES.

TERMINAL BLOCK LIST

DWG REV	BY	DESCRIPTION	APPR.	DATE

NOTES

- 1) THE CUSTOMER/CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THIS EQUIPMENT IN ACCORDANCE WITH ALL APPLICABLE CODES.
- 2) REFER TO INSTALLATION AND CONNECTIONS SECTION OF OPERATION MANUAL FOR RECOMMENDED CABLE SIZING.
- 3) REMOVE SHORTING LINKS IF OUTPUT CABLE IS USED.
- 4) FIELD INSTALLED BY OTHERS.



FOR INFORMATION PURPOSES ONLY,  
NOT FOR CONSTRUCTION

DRAWN BY: M.P. WILK 02/01/22  
APPROVED BY:

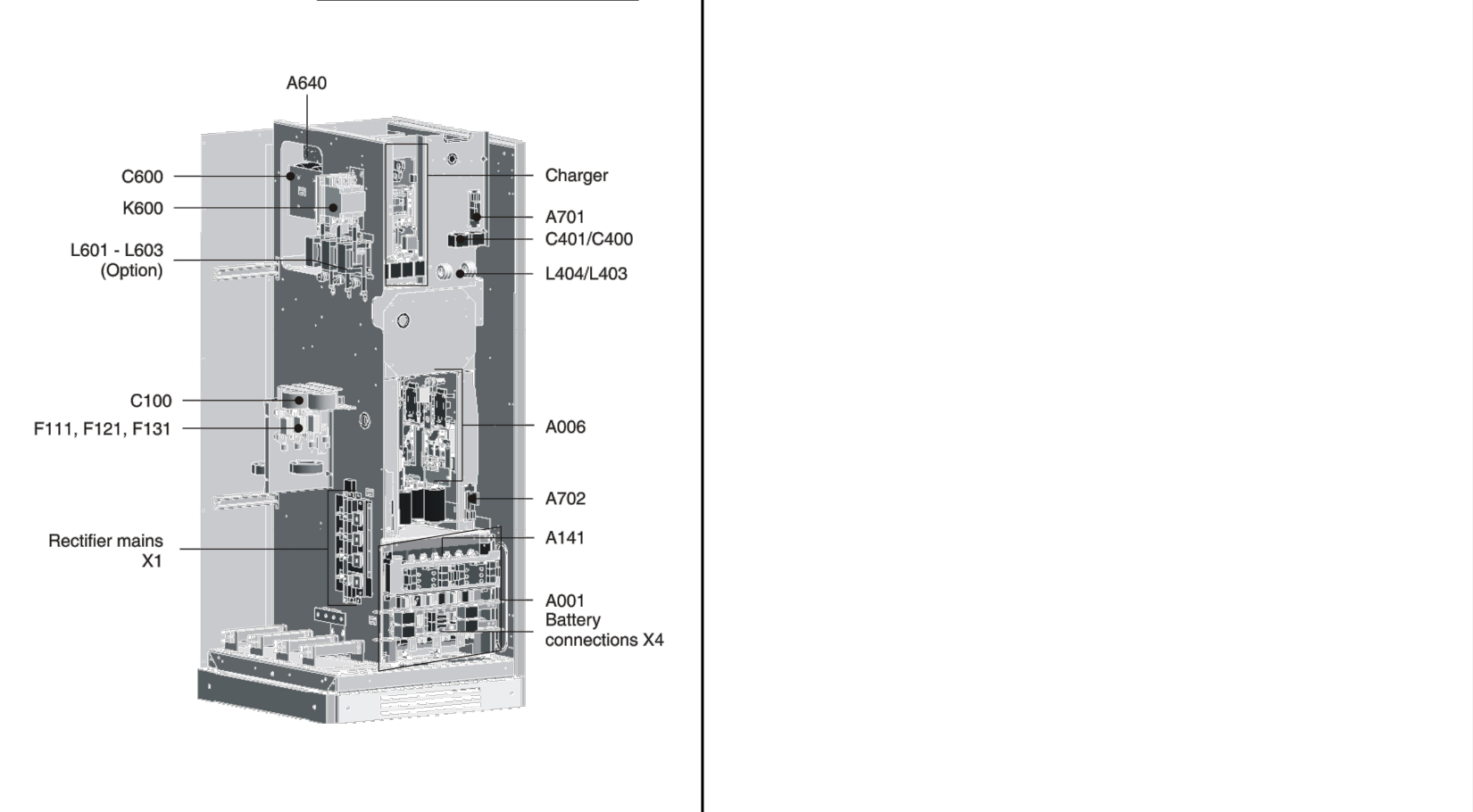
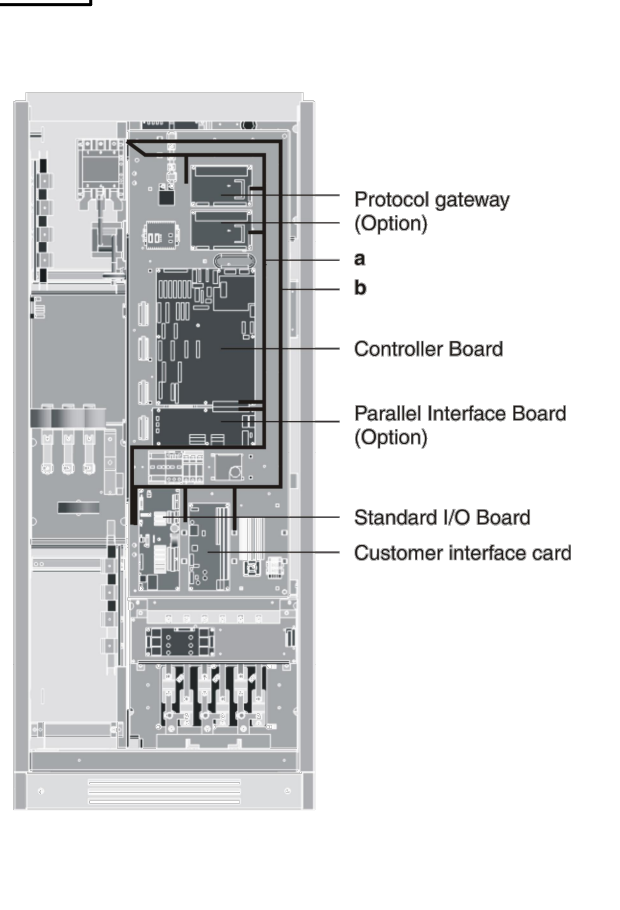
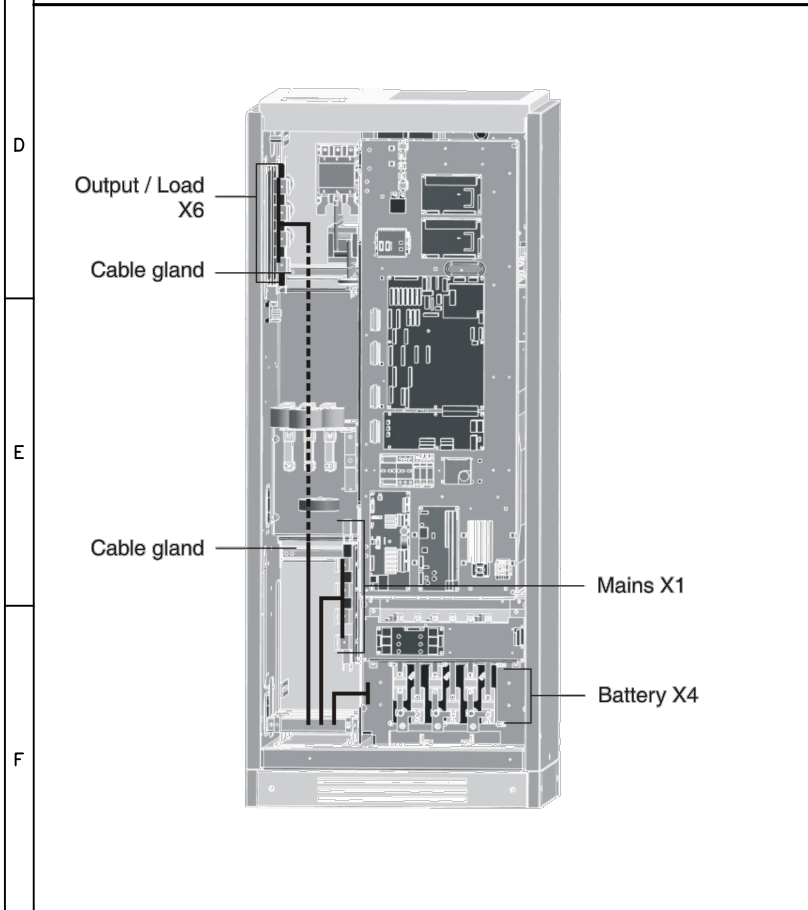
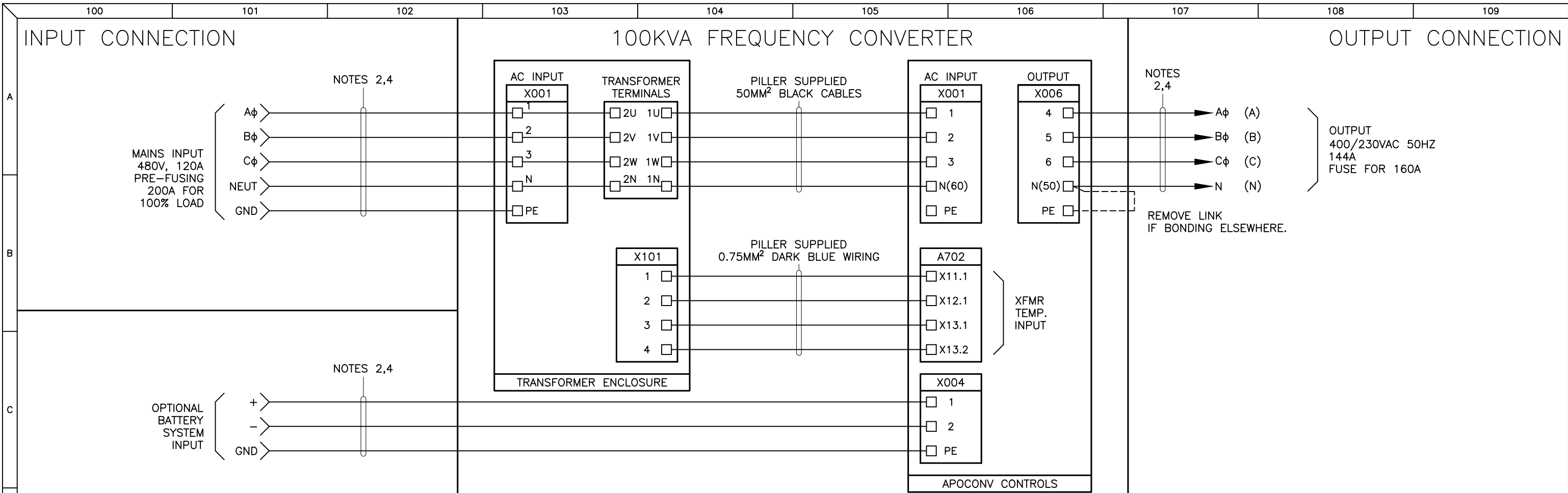
CUSTOMER

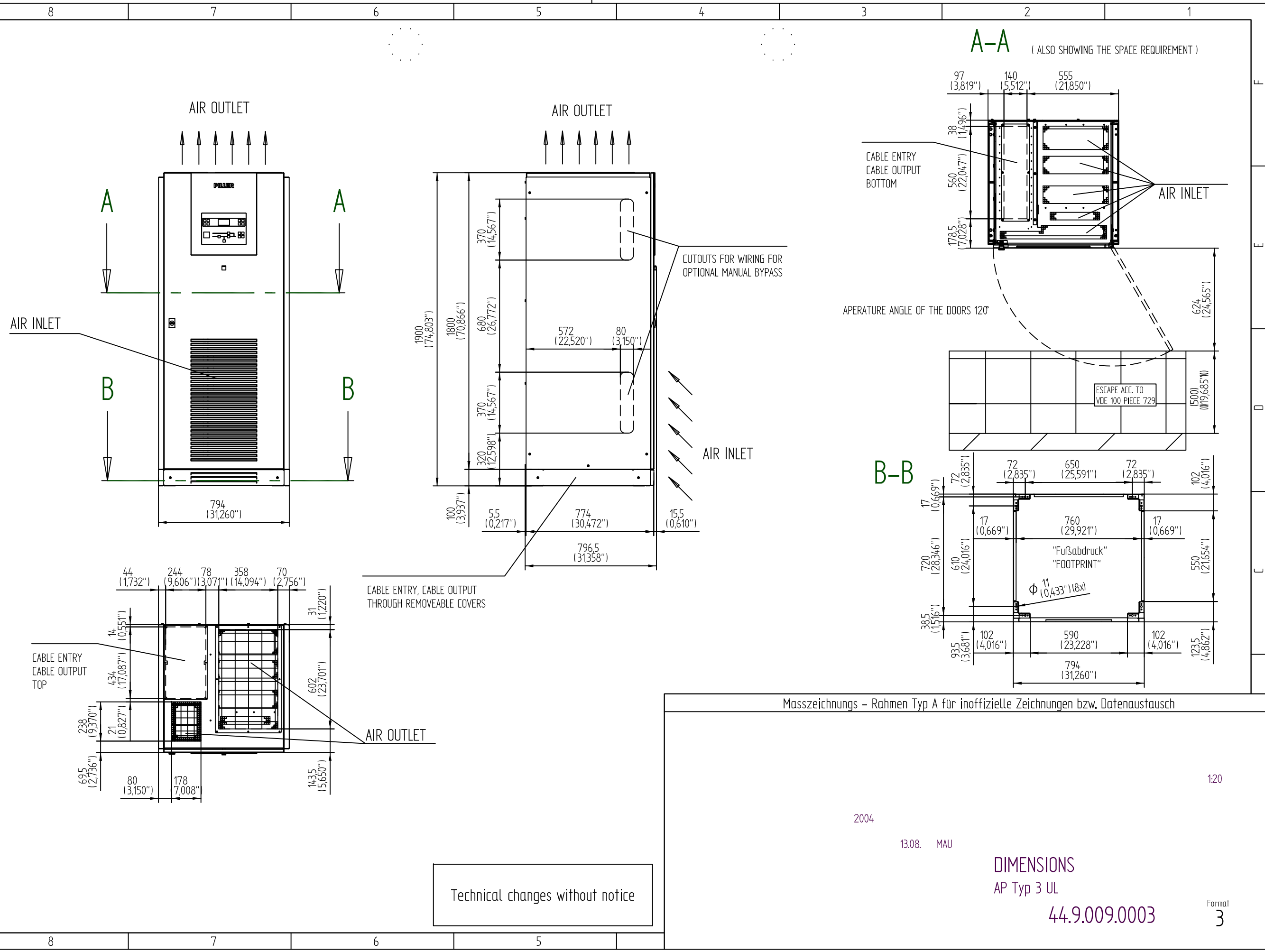
TITLE

50HZ APOCONV 100  
FREQUENCY CONVERTER

P.O.  
PROJECT  
DRAWING US43.8.011.0012  
REV 00B SHEET 1 OF 2

THIS DRAWING OR MATERIAL IS PROPRIETARY, AND IS SUBMITTED TO YOU IN CONFIDENCE. IT SHOULD BE USED ONLY FOR YOUR INFORMATION OR APPLICATION ENGINEERING STUDIES.





Technical changes without notice

Masszeichnung - Rahmen Typ A für inoffizielle Zeichnungen bzw. Datenaustausch

2004

13.08. MAU

**DIMENSIONS**  
AP Typ 3 UL

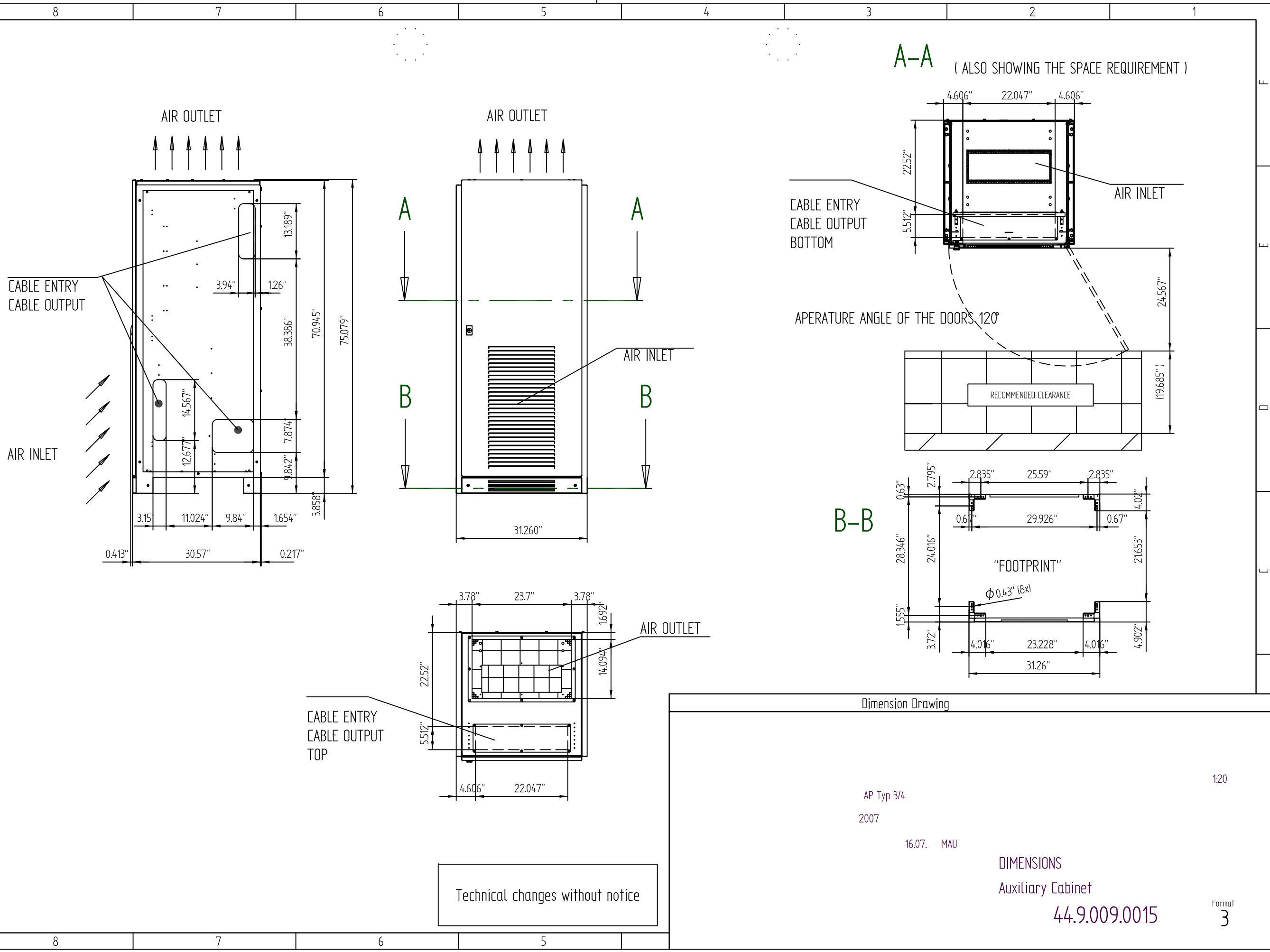
**44.9.009.0003**

Format 3

Schutzvermerk DIN ISO 16016 beachten  
 Observe protection marks DIN ISO 16016  
 Kein automatischer Änderungsdienst  
 No automatic updating service

Piller Power Systems GmbH  
 Nur zur Information  
 Only for information

Nutzung dieser Datei zur Fertigung nur in  
 Verbindung mit offiziell freigegebener Zeichnung  
 To use this file for manufacture only in  
 accordance with the official released drawing



Technical changes without notice

Dimension Drawing

AP Typ 3/4  
 2007

16.07. MAU

DIMENSIONS  
 Auxiliary Cabinet

44.9.009.0015

120

Format  
 3

**Piller Group GmbH**  
 Abgunst 24  
 D-37520 Osterode (Harz) - Germany  
 Tel. +49 (0)5522/311-0  
 Fax +49 (0)5522/311-414  
 E-Mail: info@piller.com  
 Internet: www.piller.com



Plant designation	APOCONV AC TYP 3
Id. number	4425450341
Drawing number	4380619120
Customer	
Order number	80066143
Commission-Number	
Project name	4380619120
Responsible for project	Mühe
Remarks	
Created on	03.12.2013
Edit date	24.05.2018
From	dirk.wittenberg

Number of pages 21

Modification	Date	Name	Date	16.12.2013	80066143
612322	03.02.2016	WIT	Ed	dirk.wittenberg	
	Output date	Name	Appr	Mühe	APOCONV AC TYP 3
	24.05.2018	dirk.wittenberg	Original		Replacement of
					Replaced by



Title page / cover sheet

4380619120

INDEX 002 Page 1 From 21

"Schutzvermerk ISO 16016 beachten"

# Table of contents

PPS\_F06\_001

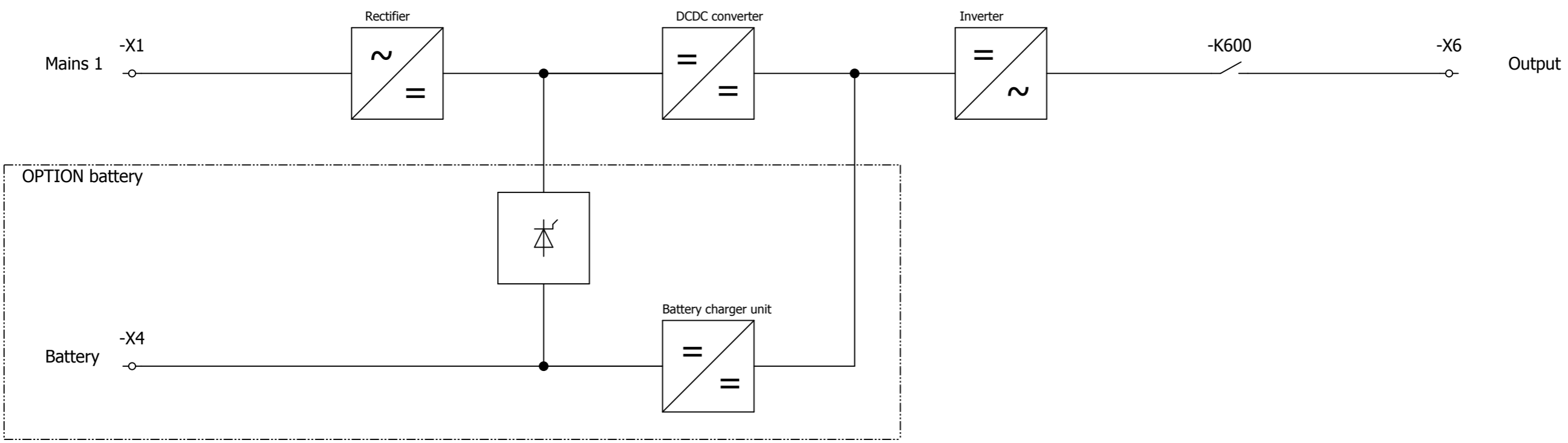
Page	Page description	Date	Edited by
/1	Title page / cover sheet	16.12.2013	dirk.wittenberg
/2	Table of contents : /1 - =REPORT+ASL/21	04.02.2016	dirk.wittenberg
=AC+CONV/3	Block diagram	03.02.2016	dirk.wittenberg
=AC+CONV/4	Dip switch configuration	03.02.2016	dirk.wittenberg
=AC+CONV/5	Customer terminals	03.02.2016	dirk.wittenberg
=AC+CONV/6	Grounding connection	03.02.2016	dirk.wittenberg
=AC+CONV/7	Input filter capacitors rectifier	04.02.2016	dirk.wittenberg
=AC+CONV/8	Dc/dc converter & inverter	03.02.2016	dirk.wittenberg
=AC+CONV/9	OPTION battery / battery charger	13.04.2015	dirk.wittenberg
=AC+CONV/10	Output filter	04.02.2016	dirk.wittenberg
=AC+CONV/11	Output contactor	03.02.2016	dirk.wittenberg
=AC+CONV/12	Fan	04.02.2016	dirk.wittenberg
=AC+CONV/13	Control & power supply	03.02.2016	dirk.wittenberg
=AC+CONV/14	Standard I/O board	04.02.2016	dirk.wittenberg
=AC+CONV/15	Option I/O board 1	04.02.2016	dirk.wittenberg
=AC+CONV/16	Option protocoll gateway	23.06.2015	dirk.wittenberg
=AC+CONV/17	Display controller/ remote control panel	04.02.2016	dirk.wittenberg
=AC+CONV/18	Option profibus DP	04.02.2016	dirk.wittenberg
=REPORT+ASL/19	Parts list : 0043710263 - 4425450214	04.02.2016	dirk.wittenberg
=REPORT+ASL/20	Parts list : 0043720383 - 0041110871	04.02.2016	dirk.wittenberg
=REPORT+ASL/21	Parts list : 0041110871 - 0041110871	04.02.2016	dirk.wittenberg

© Piller Group GmbH "Schutzvermerk ISO 16016 beachten"

1

=AC+CONV/3

Modification	Date	Name	Date	04.02.2016	80066143	<b>PILLER</b>	Table of contents : /1 - =REPORT+ASL/21	4380619120	INDEX 002	Page 2	
612322	03.02.2016	WIT	Ed	dirk.wittenberg	APOCONV AC TYP 3						=
	Output date	Name	Appr	Mühe	Replacement of						
	24.05.2018	dirk.wittenberg	Original		Replaced by						From



=+ / 2

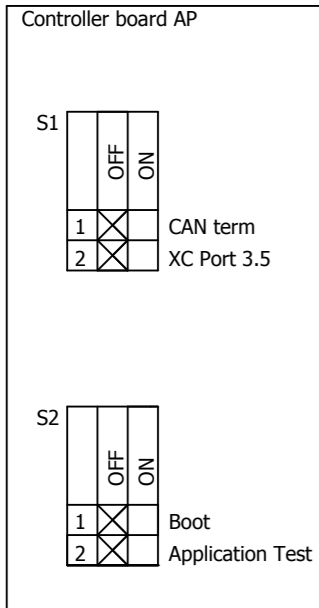
Modification	Date	Name	Date	03.02.2016	80066143
612322	03.02.2016	WIT	Ed	dirk.wittenberg	
	Output date	Name	Appr	Mühe	APOCONV AC TYP 3
	24.05.2018	dirk.wittenberg	Original		Replacement of
					Replaced by



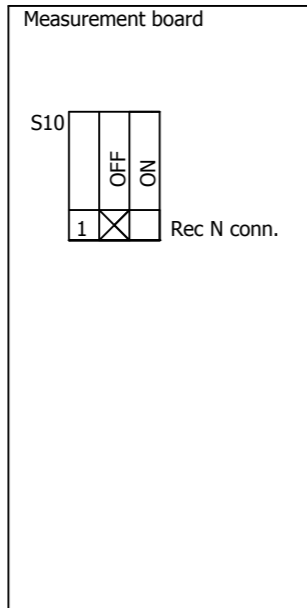
Block diagram

		= AC
		+ CONV
	4380619120	
	INDEX 002	Page 3
		From

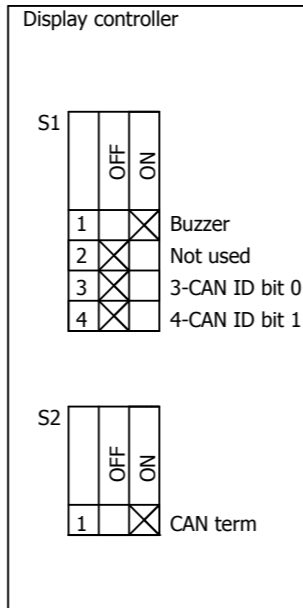
-A100  
/13.3



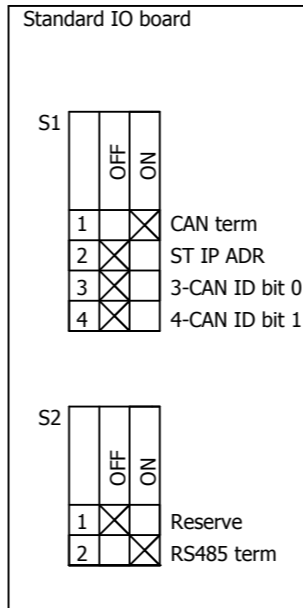
-A600  
/11.7



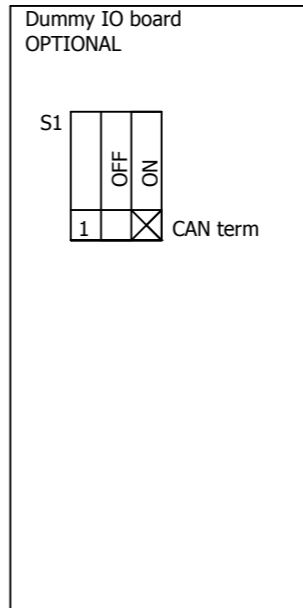
-A801  
/17.2



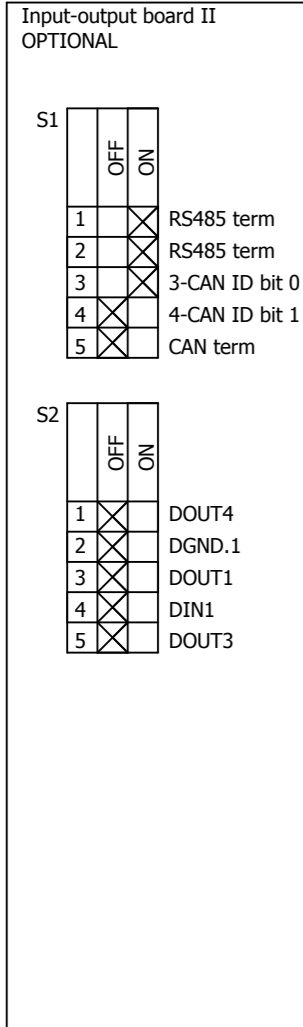
-A900  
/14.2



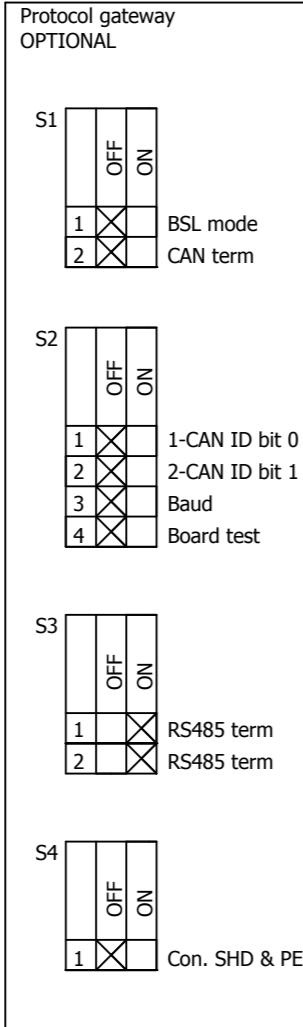
-1A900  
/14.0



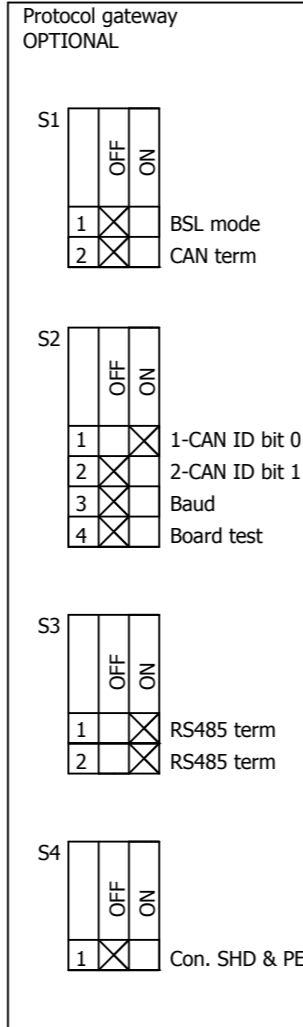
-A911  
/15.2



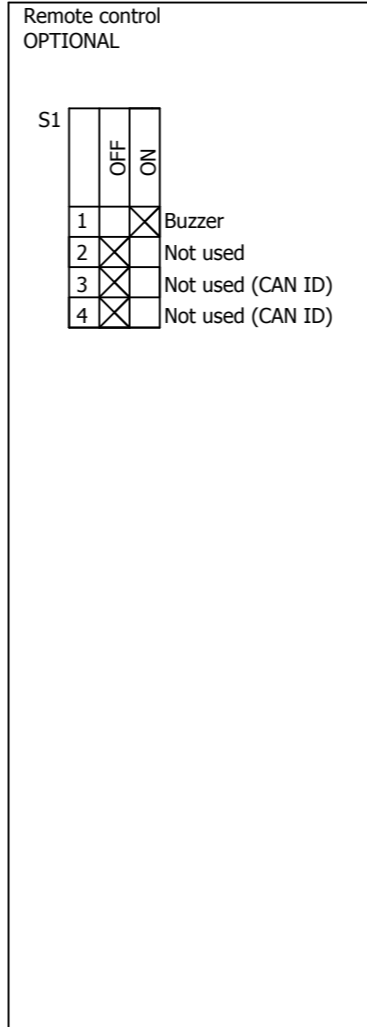
-A921  
/16.3



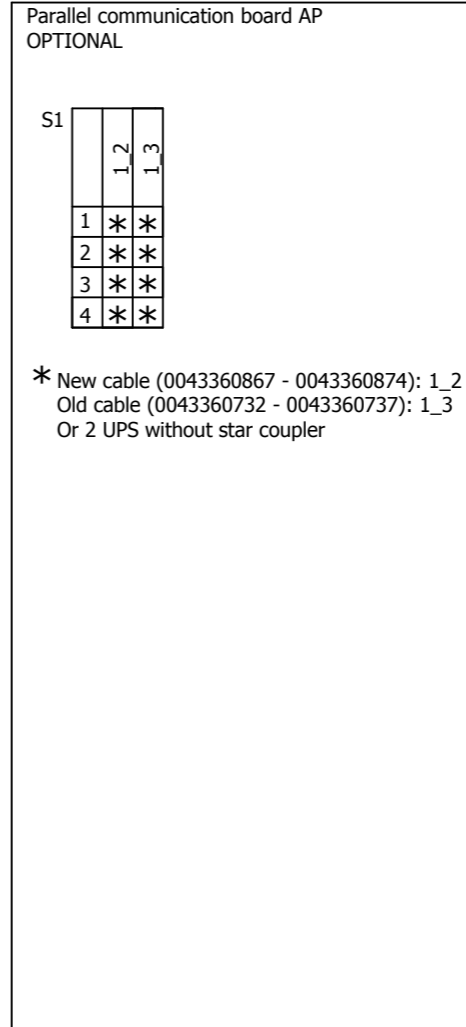
-A922  
/16.6



-A802  
/17.5



-A901  
/11.3



3

Modification	Date	Name	Date	03.02.2016	80066143
612322	03.02.2016	WIT	Ed	dirk.wittenberg	
	Output date	Name	Appr	Mühe	APOCONV AC TYP 3
	24.05.2018	dirk.wittenberg	Original		Replacement of
					Replaced by



Dip switch configuration

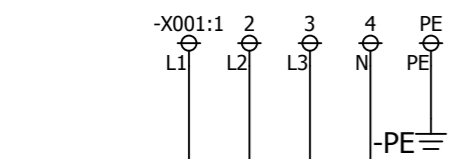
	= AC
	+ CONV
4380619120	INDEX 002
	Page 4
	From

© Piller Group GmbH "Schutzvermerk ISO 16016 beachten"

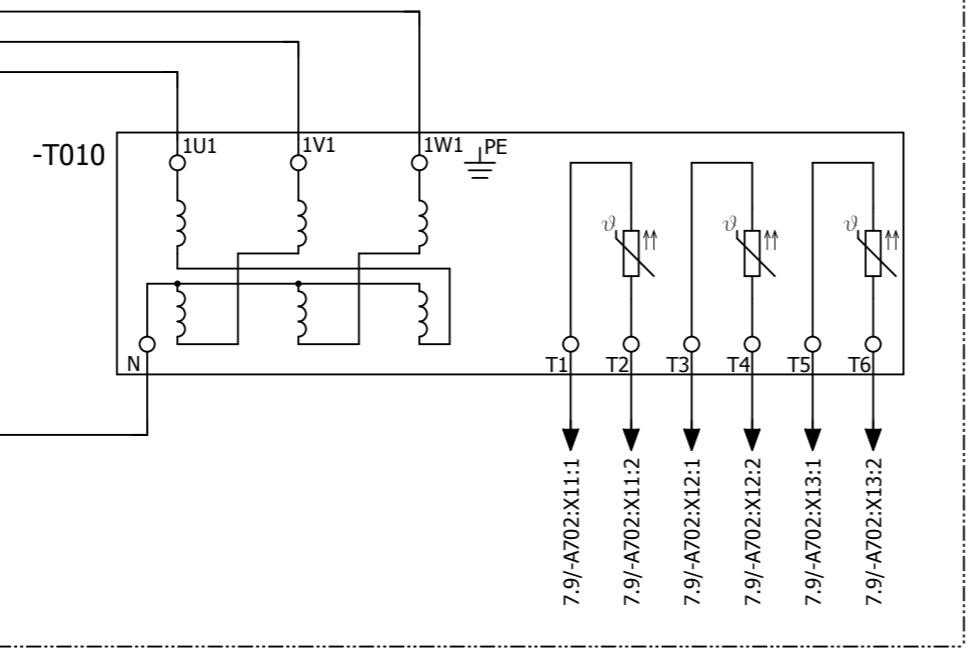
5



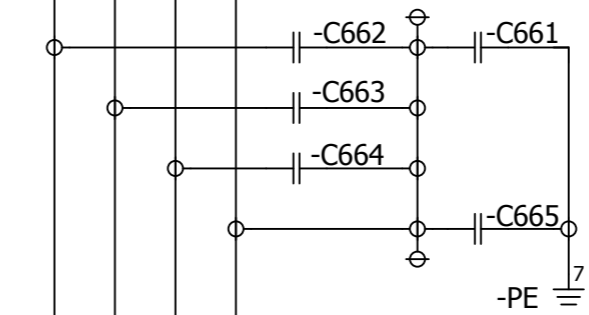
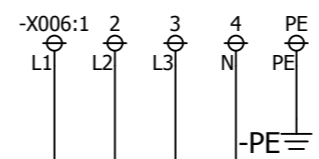
Mains 1



OPTION Grounding transformer

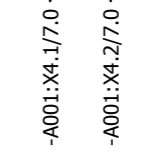
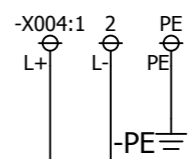


Output



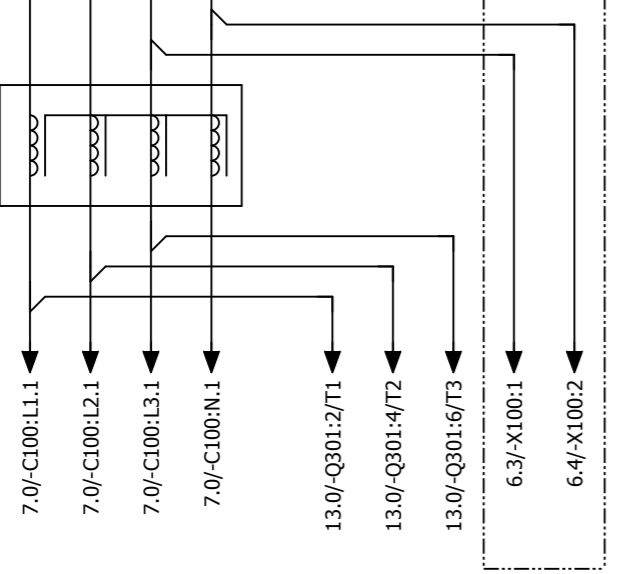
OPTION battery

Battery

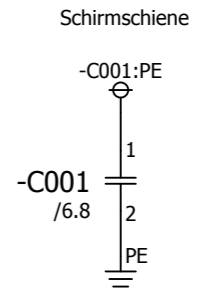
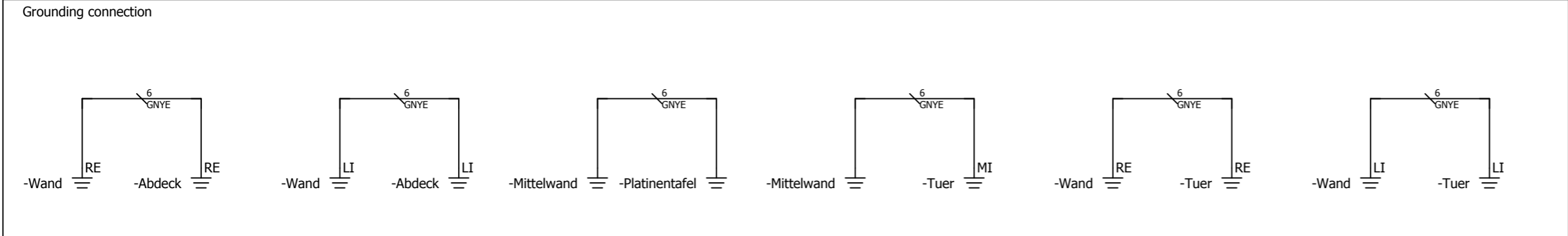
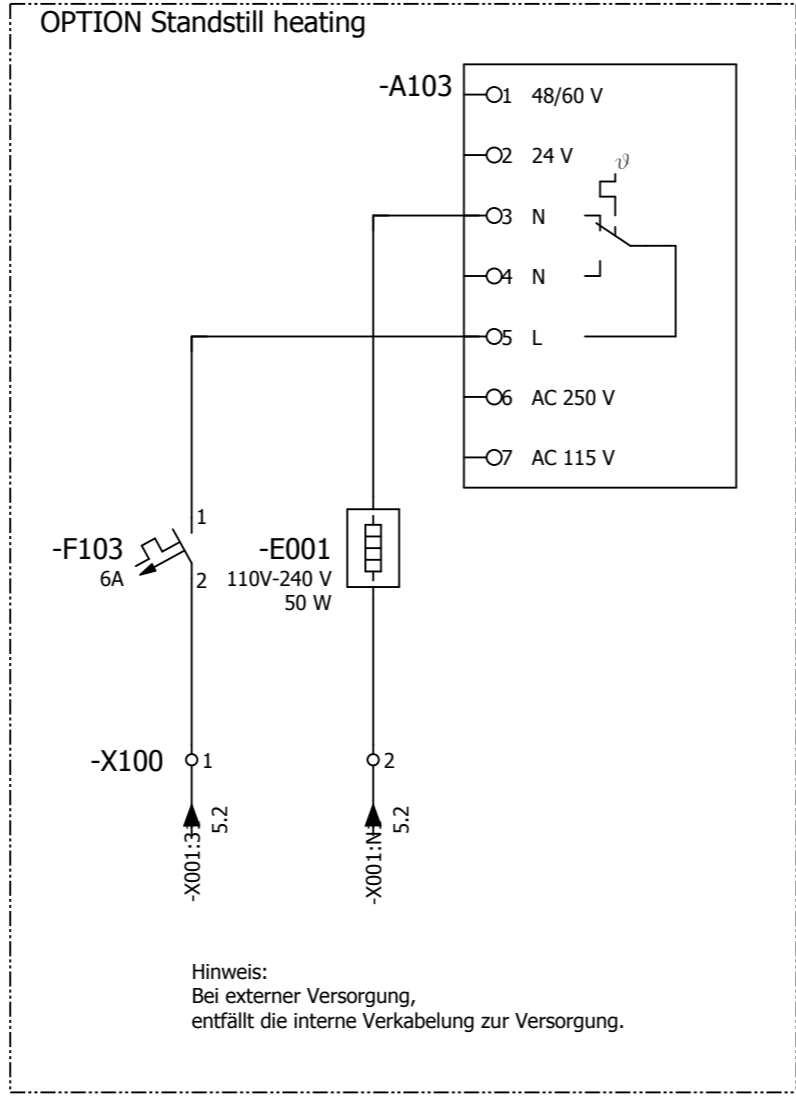


OPTION Standstill heating

-L101  
Toroidal core  
Pass trough 1x



Modification	Date	Name	Date	03.02.2016	80066143	<b>PILLER</b>	Customer terminals	4380619120	INDEX 002	Page 5	
612322	03.02.2016	WIT	Ed	dirk.wittenberg	APOCONV AC TYP 3						= AC
	Output date	Name	Appr	Mühe	Replacement of						Replaced by
	24.05.2018	dirk.wittenberg	Original								

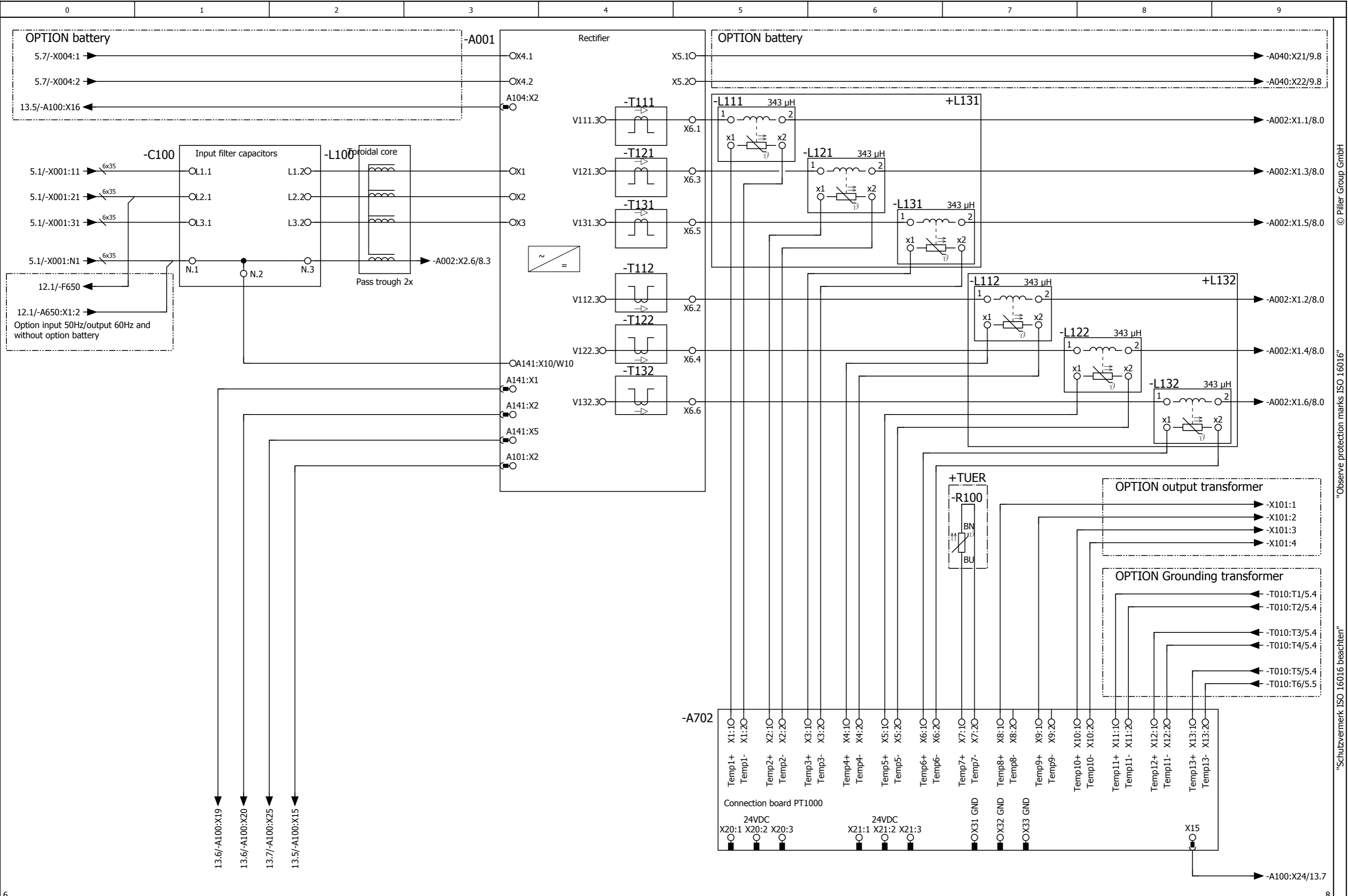


Modification	Date	Name	Date	24.05.2018	80066143
612322	03.02.2016	WIT	Ed	dirk.wittenberg	
	Output date	Name	Appr	Mühe	APOCONV AC TYP 3
	24.05.2018	dirk.wittenberg	Original		Replacement of
					Replaced by



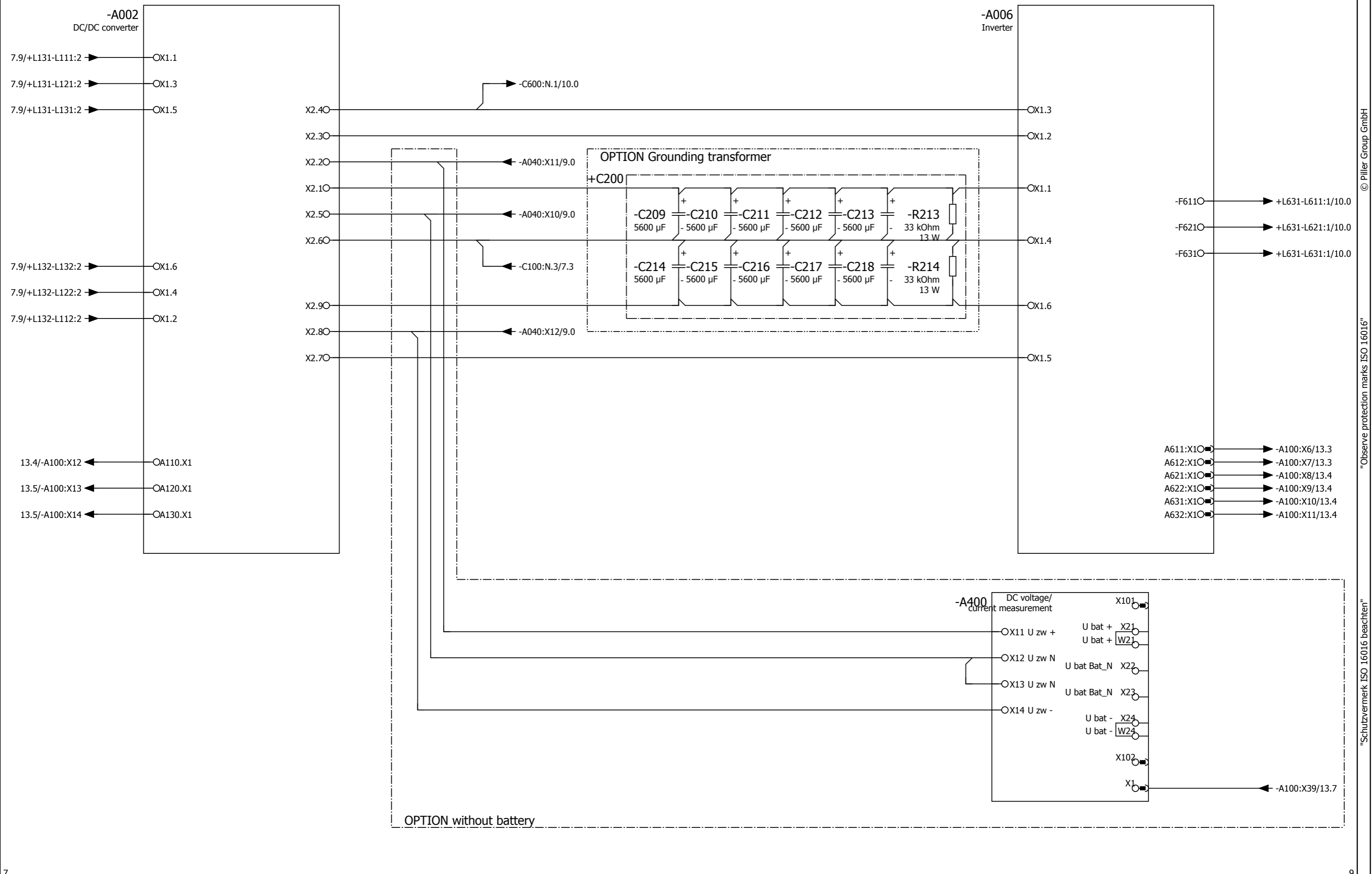
Grounding connection

	= AC
	+ CONV
4380619120	INDEX 002
	Page 6
	From



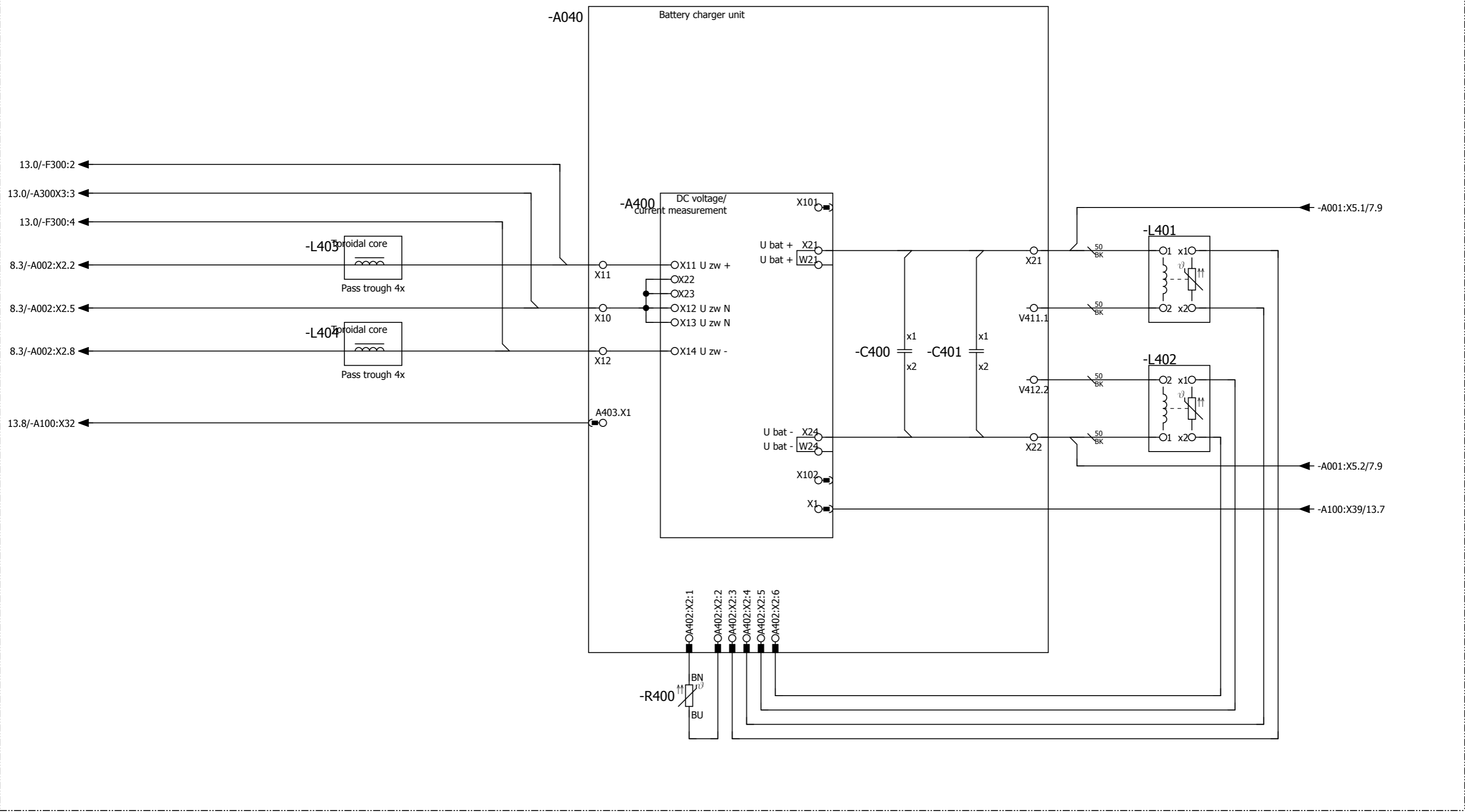
Modification	Date	Name	Date	04.02.2016	80066143	<b>PILLER</b>	Input filter capacitors rectifier	= AC + CONV	INDEX 002	Page 7
612322	03.02.2016	WIT	Ed	dirk.wittenberg	APOCONV AC TYP 3					
	Output date	Name	Appr	Mühe	Replacement of	Replaced by				
	24.05.2018	dirk.wittenberg	Original						4380619120	From 21

"Schutzvermerk ISO 16016 beachten" © Piller Group GmbH



© Piller Group GmbH  
"Schutzvermerk ISO 16016 beachten"  
"Observe protection marks ISO 16016"

OPTION battery



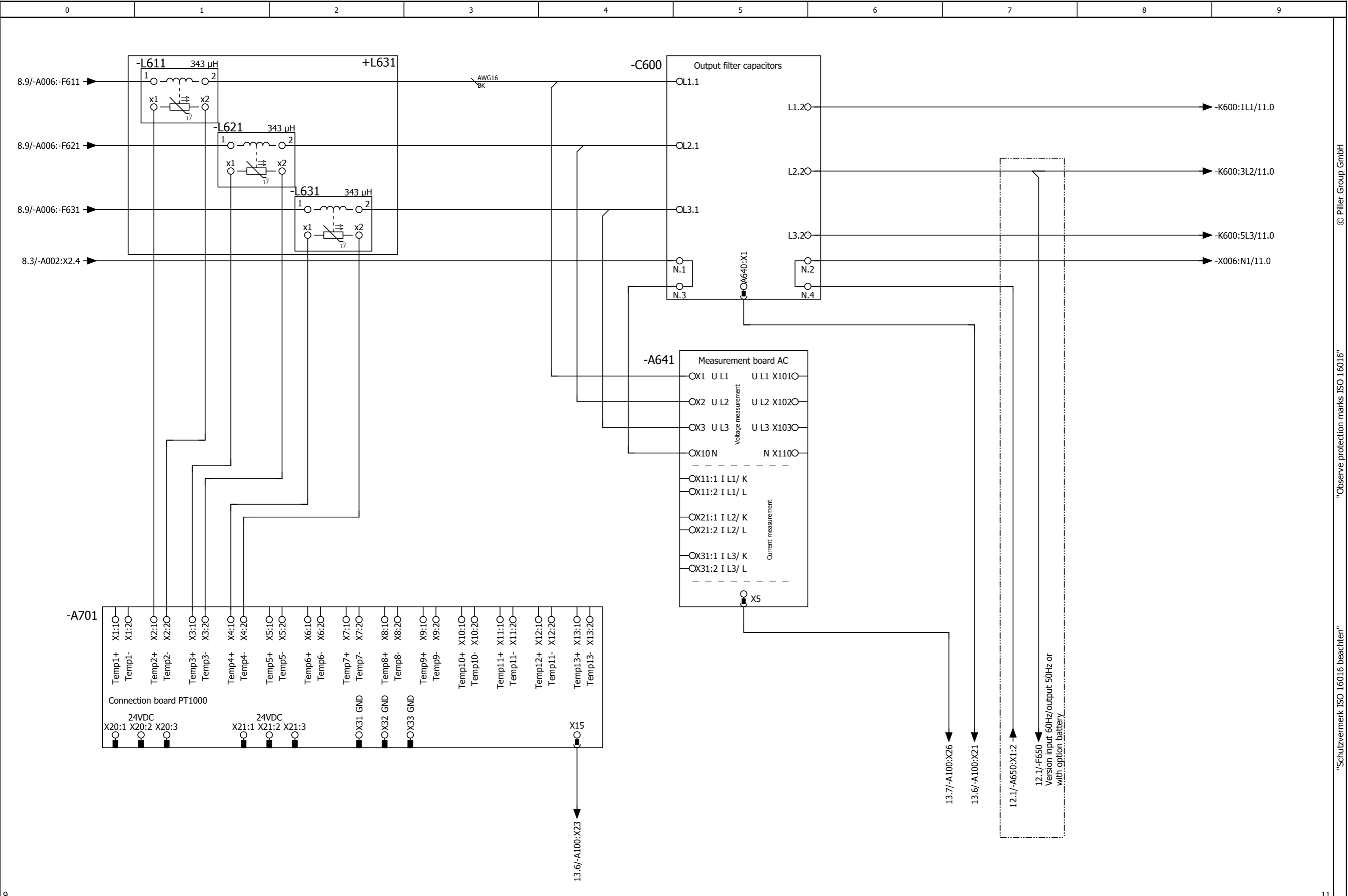
Modification	Date	Name	Date	13.04.2015	80066143
612322	03.02.2016	WIT	Ed	dirk.wittenberg	
	Output date	Name	Appr	Mühe	APOCONV AC TYP 3
	24.05.2018	dirk.wittenberg	Original		Replacement of
					Replaced by



OPTION battery / battery charger

4380619120

INDEX 002 Page 9 From 21

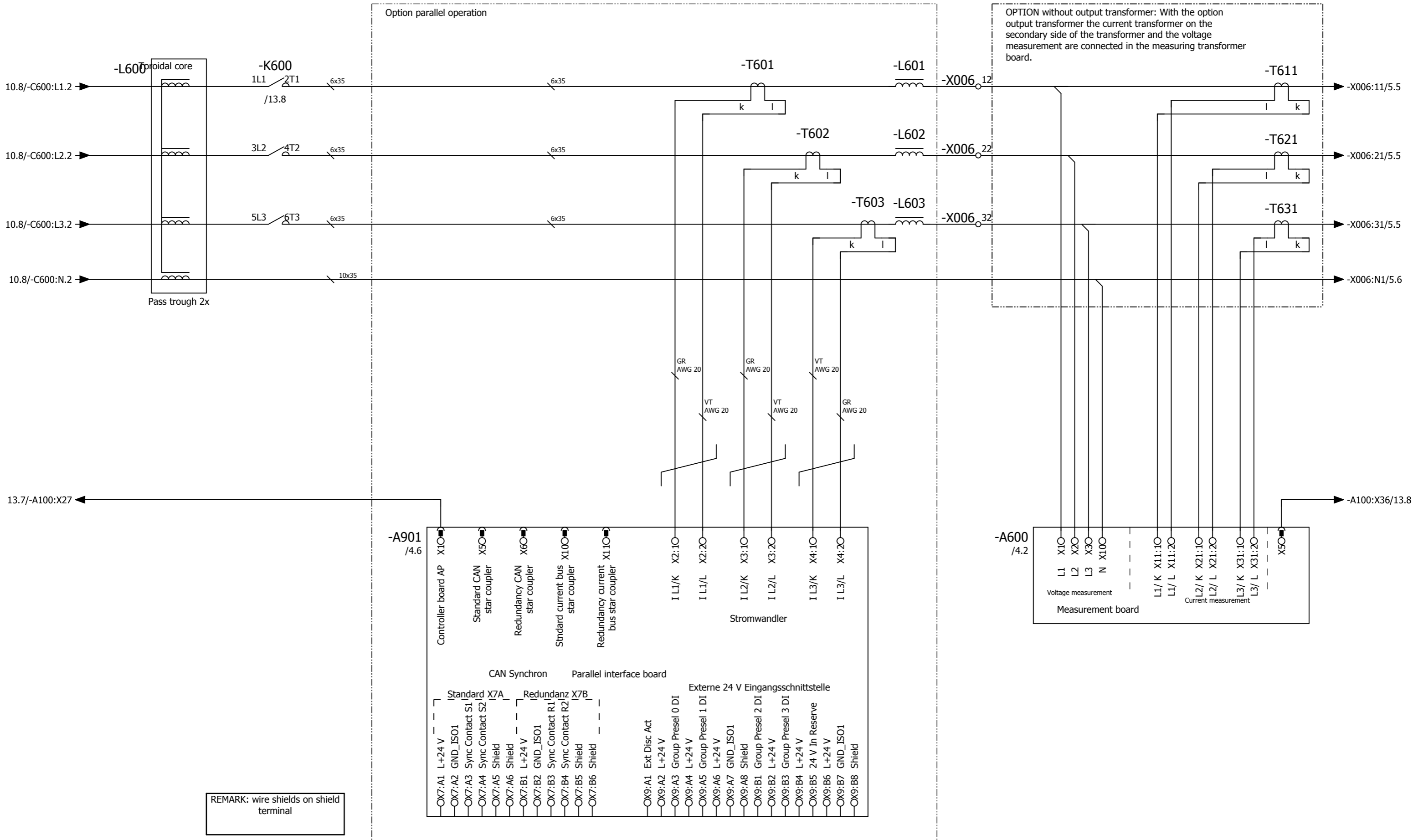


Modification	Date	Name	Date	09.03.2016	80066143	<b>PILLER</b>	Output filter	= AC + CONV	4380619120	INDEX 002	Page 10	From 21
612322	03.02.2016	WIT	Ed	dirk.wittenberg	APOCONV AC TYP 3							
	Output date	Name	Appr	Mühe	Replacement of							
	24.05.2018	dirk.wittenberg	Original									

"Observe protection marks ISO 16016"

© Piller Group GmbH

"Schutzvermerk ISO 16016 beachten"

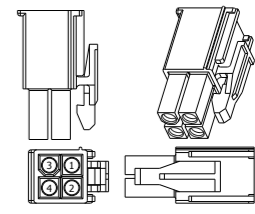
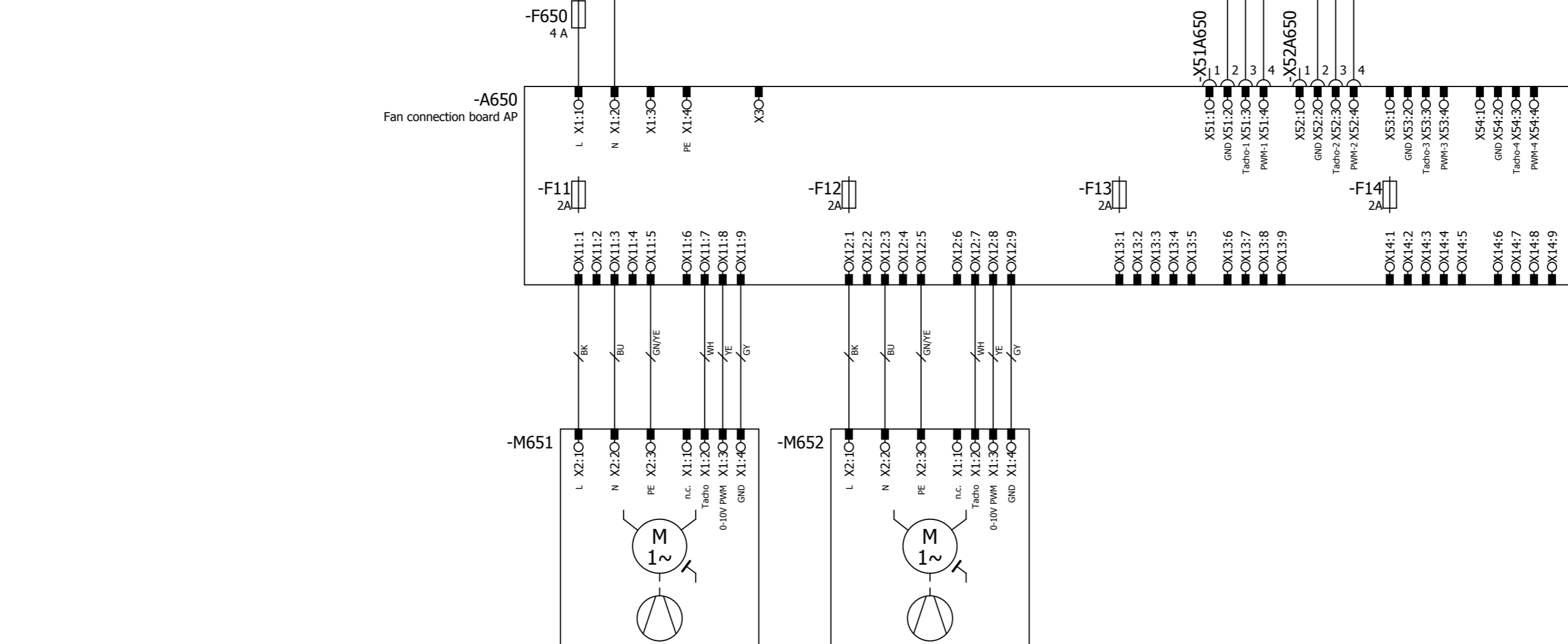
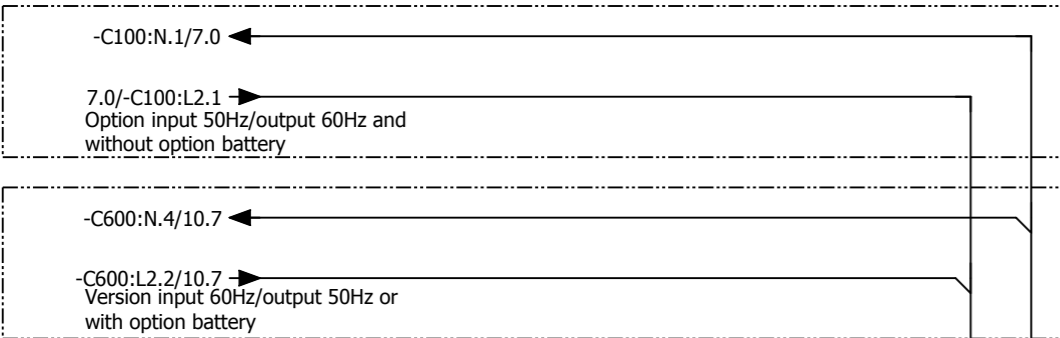


Modification	Date	Name	Date	03.02.2016	80066143
612322	03.02.2016	WIT	Ed	dirk.wittenberg	
	Output date	Name	Appr	Mühe	APOCONV AC TYP 3
	24.05.2018	dirk.wittenberg	Original		Replacement of
					Replaced by

CAN Synchron		Parallel interface board	
Standard X7A		Redundanz X7B	
Ox7:A1	L+24 V	Ox7:B1	L+24 V
Ox7:A2	GND_ISO1	Ox7:B2	GND_ISO1
Ox7:A3	Sync Contact S1	Ox7:B3	Sync Contact R1
Ox7:A4	Sync Contact S2	Ox7:B4	Sync Contact R2
Ox7:A5	Shield	Ox7:B5	Shield
Ox7:A6	Shield	Ox7:B6	Shield
Externe 24 V Eingangsschnittstelle			
Ox9:A1	Ext Disc Act	Ox9:B1	Group Presel 2 DI
Ox9:A2	L+24 V	Ox9:B2	L+24 V
Ox9:A3	Group Presel 0 DI	Ox9:B3	Group Presel 3 DI
Ox9:A4	L+24 V	Ox9:B4	L+24 V
Ox9:A5	Group Presel 1 DI	Ox9:B5	24 V In Reserve
Ox9:A6	L+24 V	Ox9:B6	L+24 V
Ox9:A7	GND_ISO1	Ox9:B7	GND_ISO1
Ox9:A8	Shield	Ox9:B8	Shield

**PILLER** Output contactor

		= AC	
		+ CONV	
4380619120		INDEX 002	Page 11
		From	21



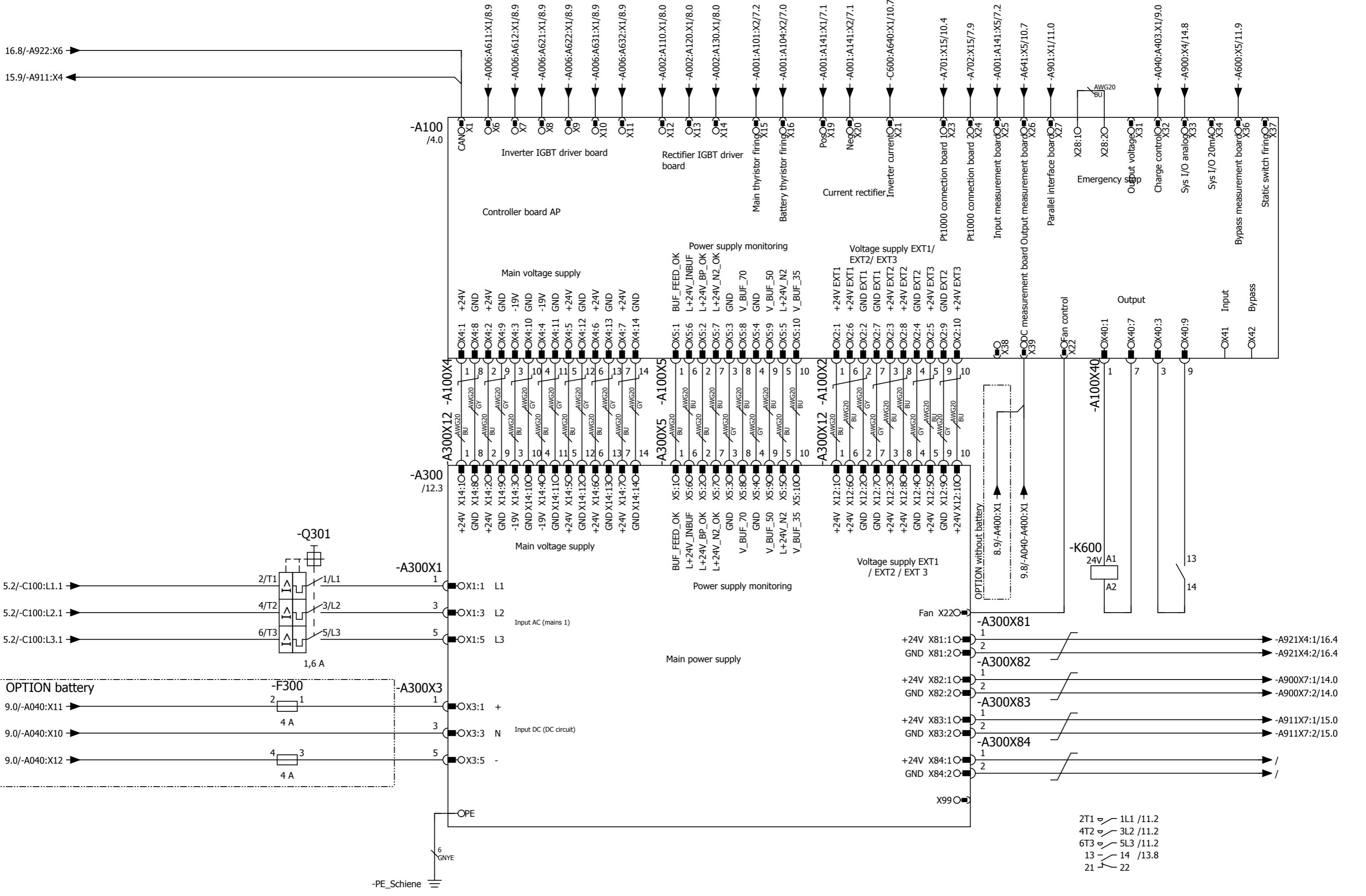
Modification	Date	Name	Date	05.02.2016	80066143
612322	03.02.2016	WIT	Ed	dirk.wittenberg	
	Output date	Name	Appr	Mühe	APOCONV AC TYP 3
	24.05.2018	dirk.wittenberg	Original		Replacement of
					Replaced by



Fan

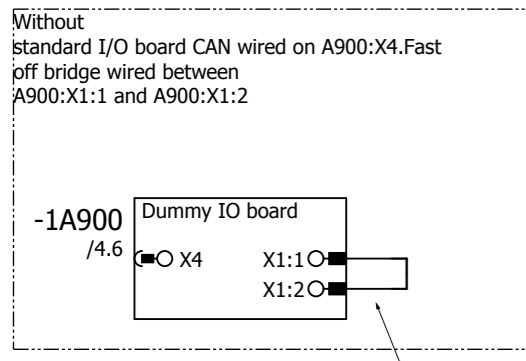
	= AC
	+ CONV
4380619120	INDEX 002
Page 12	From



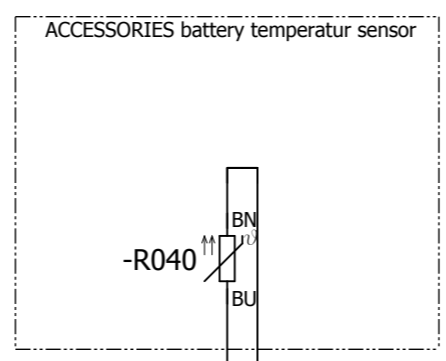


12		14	
Modification	Date	Name	Date
612322	03.02.2016	WIT	03.02.2016
	Output date	Name	Appr
	24.05.2018	dirk.wittenberg	Mühe
		Original	
80066143		APOCONV AC TYP 3	
Replacement of		Replaced by	
Control & power supply		= AC	
		+ CONV	
PILLER		4380619120	
		INDEX 002	Page 13
		From	

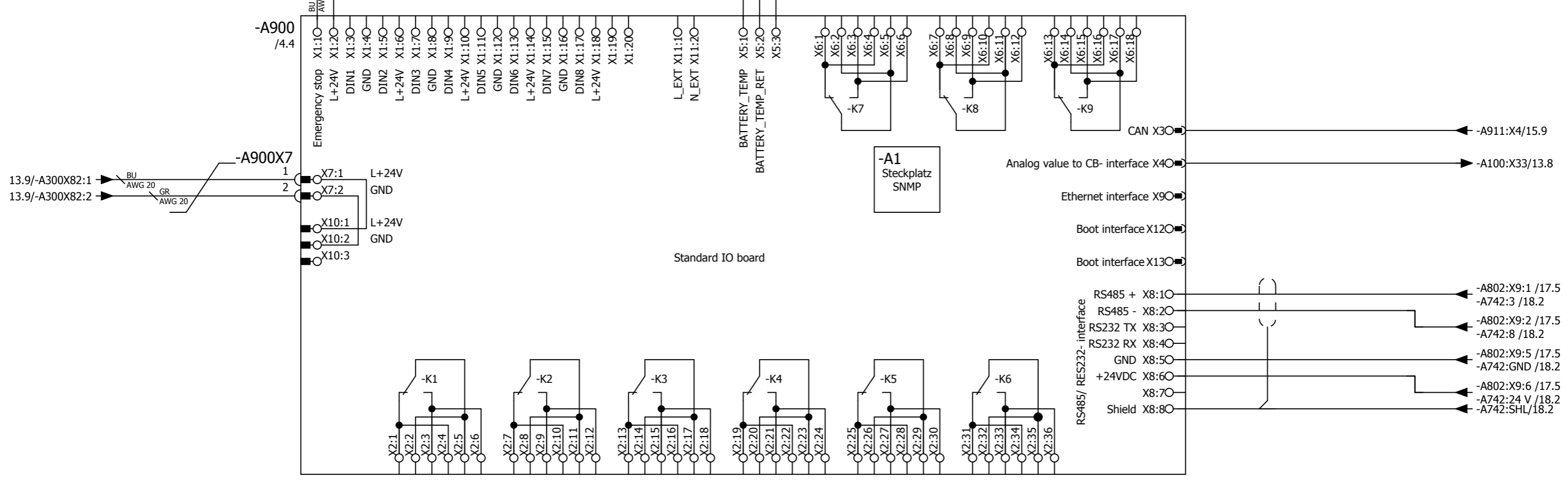
© Piller Group GmbH  
"Observe protection marks ISO 16016 beachten"



REMARK:  
Without standard I/O board fast off bridge wired on dummy I/O board



REMARK: wire shields on shield terminal

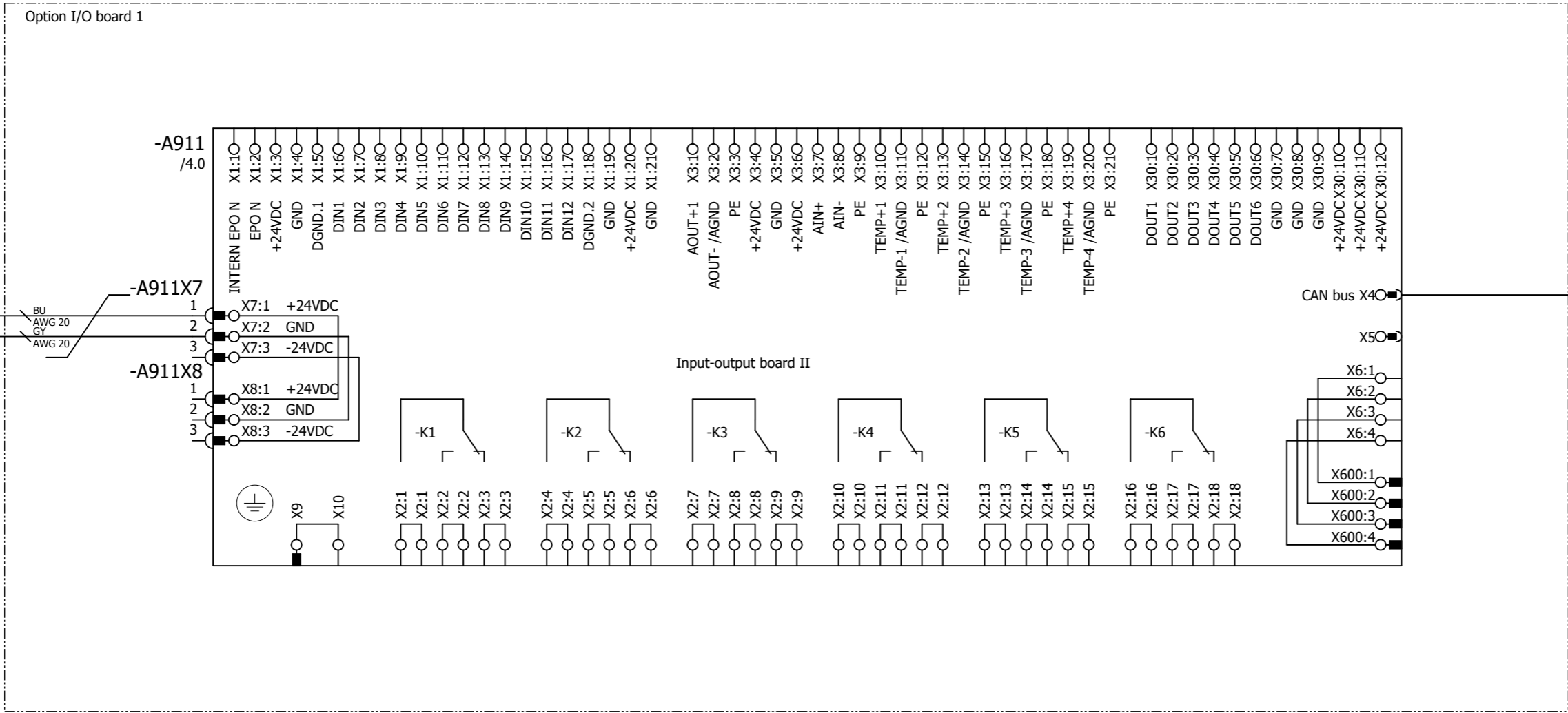


Modification	Date	Name	Date	04.02.2016	80066143
612322	03.02.2016	WIT	Ed	dirk.wittenberg	
	Output date	Name	Appr	Mühe	APOCONV AC TYP 3
	24.05.2018	dirk.wittenberg	Original		Replacement of
					Replaced by

**PILLER** Standard I/O board

		= AC	
		+ CONV	
4380619120		INDEX 002	Page 14
		From	21

REMARK: wire shields on shield terminal



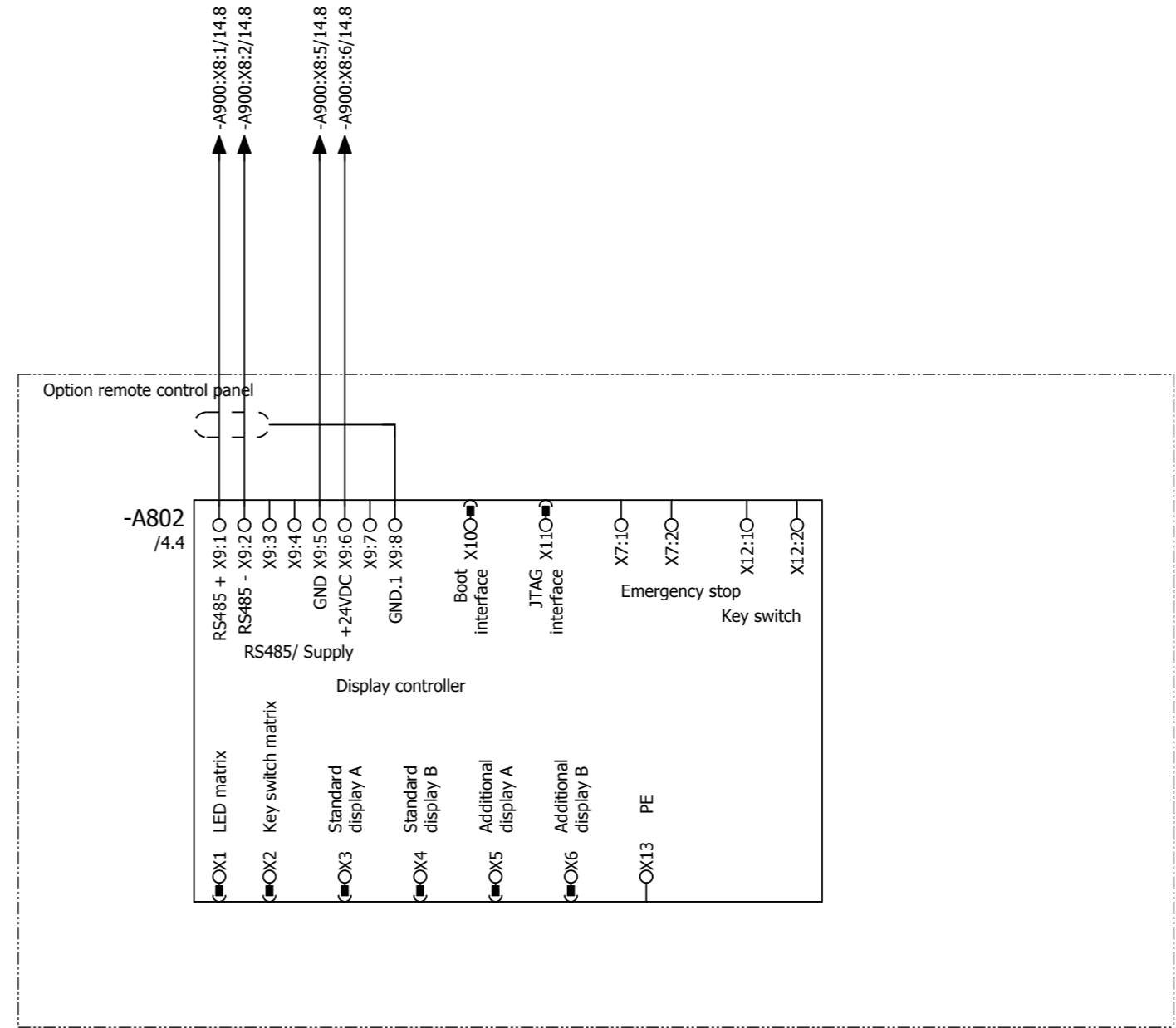
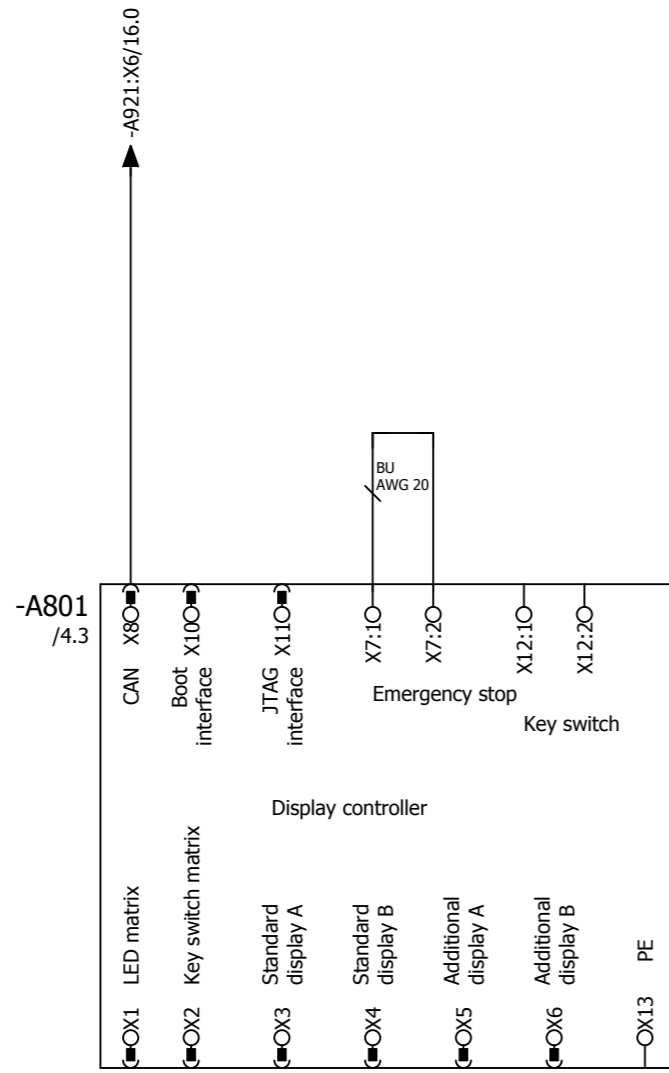
Modification	Date	Name	Date	04.02.2016	80066143
612322	03.02.2016	WIT	Ed	dirk.wittenberg	
	Output date	Name	Appr	Mühe	APOCONV AC TYP 3
	24.05.2018	dirk.wittenberg	Original		Replacement of
					Replaced by



Option I/O board 1

	= AC
	+ CONV
4380619120	INDEX 002
	Page 15
	From



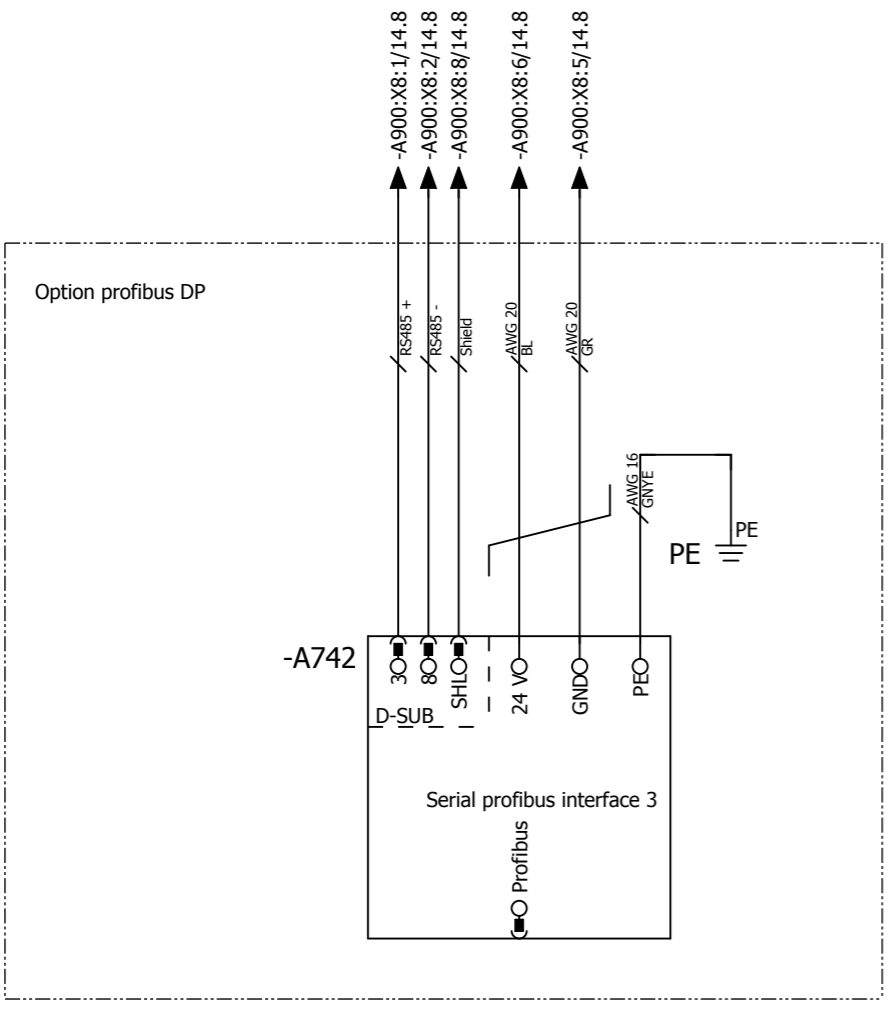


Modification	Date	Name	Date	04.02.2016	80066143
612322	03.02.2016	WIT	Ed	dirk.wittenberg	
	Output date	Name	Appr	Mühe	APOCONV AC TYP 3
	24.05.2018	dirk.wittenberg	Original		Replacement of
					Replaced by



Display controller/ remote control panel

	= AC
	+ CONV
4380619120	INDEX 002
	Page 17
	From



REMARK: wire shields on shield terminal

© Piller Group GmbH  
"Schutzvermerk ISO 16016 beachten"

Modification	Date	Name	Date	04.02.2016	80066143
612322	03.02.2016	WIT	Ed	dirk.wittenberg	
	Output date	Name	Appr	Mühe	APOCONV AC TYP 3
	24.05.2018	dirk.wittenberg	Original		Replacement of
					Replaced by

**PILLER**

Option profibus DP

		= AC
		+ CONV
	4380619120	
INDEX	Page	18
002	From	21

# Parts list

PPS\_F01\_001

Device tag	Quantity	Designation	Page / column	Part number
=AC+C200-C209	1	Capacitor AL- 5600 MIKR.F B43584-A6568-M	8.4	0043710263
=AC+C200-C210	1	Capacitor AL- 5600 MIKR.F B43584-A6568-M	8.5	0043710263
=AC+C200-C211	1	Capacitor AL- 5600 MIKR.F B43584-A6568-M	8.5	0043710263
=AC+C200-C212	1	Capacitor AL- 5600 MIKR.F B43584-A6568-M	8.6	0043710263
=AC+C200-C213	1	Capacitor AL- 5600 MIKR.F B43584-A6568-M	8.6	0043710263
=AC+C200-C214	1	Capacitor AL- 5600 MIKR.F B43584-A6568-M	8.4	0043710263
=AC+C200-C215	1	Capacitor AL- 5600 MIKR.F B43584-A6568-M	8.5	0043710263
=AC+C200-C216	1	Capacitor AL- 5600 MIKR.F B43584-A6568-M	8.5	0043710263
=AC+C200-C217	1	Capacitor AL- 5600 MIKR.F B43584-A6568-M	8.6	0043710263
=AC+C200-C218	1	Capacitor AL- 5600 MIKR.F B43584-A6568-M	8.6	0043710263
=AC+C200-R213	1	Resistor 33KILO OHM type 10SR 13,0W	8.6	0049340521
=AC+C200-R214	1	Resistor 33KILO OHM type 10SR 13,0W	8.6	0049340521
=AC+CONV-1A900	1	Dummy I/O - card	14.0	4824892446
=AC+CONV-A001	1	Rectifier AC Type 3	7.3	4424910032
=AC+CONV-A002	1	DC DC Converter AC Type 3	8.1	4424910033
=AC+CONV-A006	1	Inverter AC Type 3	8.7	4424910034
=AC+CONV-A040	1	Battery charger AP type 6	9.4	4424910021
=AC+CONV-A040-A400	1	DC voltage/ current measurement instrument	9.4	4824892526
=AC+CONV-A100	1	Controllerboard AP II	13.3	4824892588
=AC+CONV-A100X2	1	Rack 10 pole AMP 770580-1	13.7	0046640303
=AC+CONV-A100X4	1	Rack 14 pole AMP 770582-1	13.2	0046640304
=AC+CONV-A100X5	1	Rack 10 pole AMP 770580-1	13.2	0046640303
=AC+CONV-A100X40	1	Rack 12 pole AMP 770581-1	13.8	0046640287
=AC+CONV-A103	1	Controllor for temperature SK031100000	6.4	0049860431
=AC+CONV-A300	1	Power supply AP 120-500kVA IEC	13.3	4824892542
=AC+CONV-A300X1	1	Plug housing 5 Pole AMP	13.2	0046640050
=AC+CONV-A300X3	1	Plug housing 5 Pole AMP	13.2	0046640050
=AC+CONV-A300X5	1	Rack 10 pole AMP 770580-1	13.2	0046640303
=AC+CONV-A300X12	1	Rack 10 pole AMP 770580-1	13.7	0046640303
=AC+CONV-A300X12	1	Rack 14 pole AMP 770582-1	13.2	0046640304
=AC+CONV-A300X81	1	Rack 2 pole AMP 172165-1	13.7	0046640302
=AC+CONV-A300X82	1	Rack 2 pole AMP 172165-1	13.7	0046640302
=AC+CONV-A300X83	1	Rack 2 pole AMP 172165-1	13.7	0046640302
=AC+CONV-A300X84	1	Rack 2 pole AMP 172165-1	13.7	0046640302
=AC+CONV-A400	1	DC voltage/ current measurement instrument	8.7	4824892526
=AC+CONV-A600	1	AC- measurement board varnished	11.7	4821963608
=AC+CONV-A641	1	measurement board AC	10.5	4824892641
=AC+CONV-A650	1	Fan connection board AP 4-channel type 3-5	12.3	4824892744
=AC+CONV-A701	1	Connection board PT1000	10.0	4824892421
=AC+CONV-A702	1	Connection board PT1000	7.5	4824892421
=AC+CONV-A742	1	Profibus- interface SPI3 / RS-485	18.1	0041641312
=AC+CONV-A801	1	control panel APOSTAR Premium complete	17.2	4824892524
=AC+CONV-A802	1	Display controller AP remote	17.5	4824892576
=AC+CONV-A900	1	Standard I/O-Board	14.2	4824892534
=AC+CONV-A900X7	1	Rack 2 pole AMP 172165-1	14.1	0046640302
=AC+CONV-A901	1	Parallel communication board AP	11.3	4824892533
=AC+CONV-A911	1	input-output board II	15.2	4824892429
=AC+CONV-A911X7	1	Plug housing 3 Pin AMP 350766-1	15.1	0046640040
=AC+CONV-A911X8	1	Plug housing 3 Pin AMP 350766-1	15.1	0046640040
=AC+CONV-A921	1	Protocol gateway RS232,RS485,Modem,SNMP	16.3	4824892636
=AC+CONV-A921X4	1	Plug housing 3 Pin AMP 350766-1	16.3	0046640040
=AC+CONV-A921X5	1	Plug housing 3 Pin AMP 350766-1	16.3	0046640040
=AC+CONV-A922	1	Protocol gateway RS232,RS485,Modem,SNMP	16.6	4824892636
=AC+CONV-A922X4	1	Plug housing 3 Pin AMP 350766-1	16.7	0046640040
=AC+CONV-C001	1	Cond,fol 680NanoF MKP-Snubber 1600V A3.6	6.8	0043720334
=AC+CONV-C100	1	Mounting Plate AP Type 3 IEC	7.1	4425450214

=AC+CONV/18

Modification	Date	Name	Date	04.02.2016	80066143
612322	03.02.2016	WIT	Ed	dirk.wittenberg	
	Output date	Name	Appr	Mühe	APOCONV AC TYP 3
	24.05.2018	dirk.wittenberg	Original		Replacement of
					Replaced by

# PILLER

Parts list : 0043710263 - 4425450214

= REPORT

+ ASL

4380619120

INDEX  
002

Page 19  
From 21

© Piller Group GmbH

"Observe protection marks ISO 16016"

"Schutzvermerk ISO 16016 beachten"

# Parts list

PPS\_F01\_001

Device tag	Quantity	Designation	Page / column	Part number
=AC+CONV-C101	1	Capacitor 3,3µF 20% MKP-Snubbe 630V A3.6 L41	5.1	0043720383
=AC+CONV-C102	1	Capacitor 3,3µF 20% MKP-Snubbe 630V A3.6 L41	5.1	0043720383
=AC+CONV-C103	1	Capacitor 3,3µF 20% MKP-Snubbe 630V A3.6 L41	5.1	0043720383
=AC+CONV-C104	1	Capacitor 470nF, MKP-Snubber	5.2	0043720347
=AC+CONV-C105	1	Capacitor 470nF, MKP-Snubber	5.2	0043720347
=AC+CONV-C600	1	Filterkondensator Output AP Typ 3 IEC	10.4	4425450070
=AC+CONV-C661	1	Capacitor 470nF, MKP-Snubber	5.6	0043720347
=AC+CONV-C662	1	Capacitor 3,3µF 20% MKP-Snubbe 630V A3.6 L41	5.6	0043720383
=AC+CONV-C663	1	Capacitor 3,3µF 20% MKP-Snubbe 630V A3.6 L41	5.6	0043720383
=AC+CONV-C664	1	Capacitor 3,3µF 20% MKP-Snubbe 630V A3.6 L41	5.6	0043720383
=AC+CONV-C665	1	Capacitor 470nF, MKP-Snubber	5.6	0043720347
=AC+CONV-E001	1	Cubicle heating SK3105340 50W 110-240V	6.4	0042850041
=AC+CONV-F103	1	1P FUSE INTERRUPTER 5SN1 706 10 A T 380V	6.3	0046470109
=AC+CONV-F300	1	Fuse holder 2pol CHM2DU 32A 690V	13.2	0042830207
=AC+CONV-F650	1	Fuse holder 1-pol CHM1D 10x38 32A 690V	12.3	0042830190
=AC+CONV-F650	1	Fuse 4A 10x38 gG 500V X213598	12.3	0046470951
=AC+CONV-K600	1	Contacteur AF146-30-11B-11 1SFL 467 002 R1111 75kW 24/60V 50/60Hz/DC	13.8	0046151146
=AC+CONV-L100	1	Toroid 102x76x25	7.2	0046670017
=AC+CONV-L101	1	Toroid 102x76x25	5.1	0046670017
=AC+CONV-L401	1	1ph converter choke Mu 343µH 165/585A	9.7	0041110671
=AC+CONV-L402	1	1ph converter choke Mu 343µH 165/585A	9.7	0041110671
=AC+CONV-L403	1	Toroid 102x76x25	9.2	0046670017
=AC+CONV-L404	1	Toroid 102x76x25	9.2	0046670017
=AC+CONV-L600	1	Toroid 102x76x25	11.1	0046670017
=AC+CONV-L601	1	Choke 3,5µH 480V	11.6	0041110709
=AC+CONV-L602	1	Choke 3,5µH 480V	11.6	0041110709
=AC+CONV-L603	1	Choke 3,5µH 480V	11.6	0041110709
=AC+CONV-M651	1	blower D2E 146-HT-67-39	12.3	0044890201
=AC+CONV-M652	1	blower D2E 146-HT-67-39	12.4	0044890201
=AC+CONV-Q301	1	Motor protecting switch MS1,6	13.2	0046091449
=AC+CONV-R040	1	Shunt PT1000 W-EOK	14.4	0049250060
=AC+CONV-R400	1	resistor PT1000 W-EOK with plug 1,5m	9.4	0049250078
=AC+CONV-T010	1	Grounding transformer 8,8kVA 3x440V vector group ZN	5.2	0048421583
=AC+CONV-T601	1	current transformer cl.1 2500/1A BV049-P48	11.5	0049300525
=AC+CONV-T602	1	current transformer cl.1 2500/1A BV049-P48	11.5	0049300525
=AC+CONV-T603	1	current transformer cl.1 2500/1A BV049-P48	11.6	0049300525
=AC+CONV-T611	1	current transformer cl.1 600/1A BV046-P48	11.8	0049300522
=AC+CONV-T621	1	current transformer cl.1 600/1A BV046-P48	11.8	0049300522
=AC+CONV-T631	1	current transformer cl.1 600/1A BV046-P48	11.8	0049300522
=AC+CONV-X51A300	1	Rack 4 pole AMP 172167-1	12.6	0046640319
=AC+CONV-X51A650	1	Rack 4 pole AMP 172167-1	12.6	0046640319
=AC+CONV-X52A300	1	Rack 4 pole AMP 172167-1	12.7	0046640319
=AC+CONV-X52A650	1	Rack 4 pole AMP 172167-1	12.7	0046640319
=AC+CONV-X651	1	housing no. 12 pole AMP cube	12.0	0046640278
=AC+CONV-X651	1	Rack for 12 pol.socket AMP	12.0	0046640048
=AC+L131	1		7.5	4425450325
=AC+L131-L111	1	1ph.inv.choke AL 343uH 165/585A	7.5	0041110871
=AC+L131-L121	1	1ph.inv.choke AL 343uH 165/585A	7.6	0041110871
=AC+L131-L131	1	1ph.inv.choke AL 343uH 165/585A	7.6	0041110871
=AC+L631	1		10.0	4425450325
=AC+L631-L611	1	1ph.inv.choke AL 343uH 165/585A	10.1	0041110871
=AC+L631-L621	1	1ph.inv.choke AL 343uH 165/585A	10.1	0041110871
=AC+L631-L631	1	1ph.inv.choke AL 343uH 165/585A	10.2	0041110871
=AC+L132	1		7.7	4425450325
=AC+L132-L112	1	1ph.inv.choke AL 343uH 165/585A	7.7	0041110871
=AC+L132-L122	1	1ph.inv.choke AL 343uH 165/585A	7.7	0041110871

© Piller Group GmbH

"Observe protection marks ISO 16016"

"Schutzvermerk ISO 16016 beachten"

Modification	Date	Name	Date	04.02.2016	80066143	<b>PILLER</b>	Parts list : 0043720383 - 0041110871	= REPORT	
612322	03.02.2016	WIT	Ed	dirk.wittenberg	APOCONV AC TYP 3			+ ASL	
	Output date	Name	Appr	Mühe	Replacement of			Replaced by	4380619120
	24.05.2018	dirk.wittenberg	Original						From 21





**Piller Group GmbH**  
 Abgunst 24  
 D-37520 Osterode (Harz) - Germany  
 Tel. +49 (0)5522/311-0  
 Fax +49 (0)5522/311-414  
 E-Mail: info@piller.com  
 Internet: www.piller.com



Unit designation	AC 200 option input transformer 480/400V		
Id. number	4425450452		
Drawing number	4480991913		
Customer			
Order number			
Commission number			
Project name	4480991913		
Responsible for project	Schmidt		
Remarks			
Created on	15.11.2021		
Edit date	09.02.2022		
From	dirk.wittenberg		Number of pages 7

Modification	Date	Name	Date	15.11.2021
621463	09.02.2022	WIT	Ed	dirk.wittenberg
	Output date	Name	Appr	Schmidt
	09.02.2022	dirk.wittenberg	Original	

AC 200 option input transformer 480/400V
Replacement of
Replaced by



Title page/cover sheet

=	
1 : 1 +	
4480991913	INDEX 001
Page 1	From 7

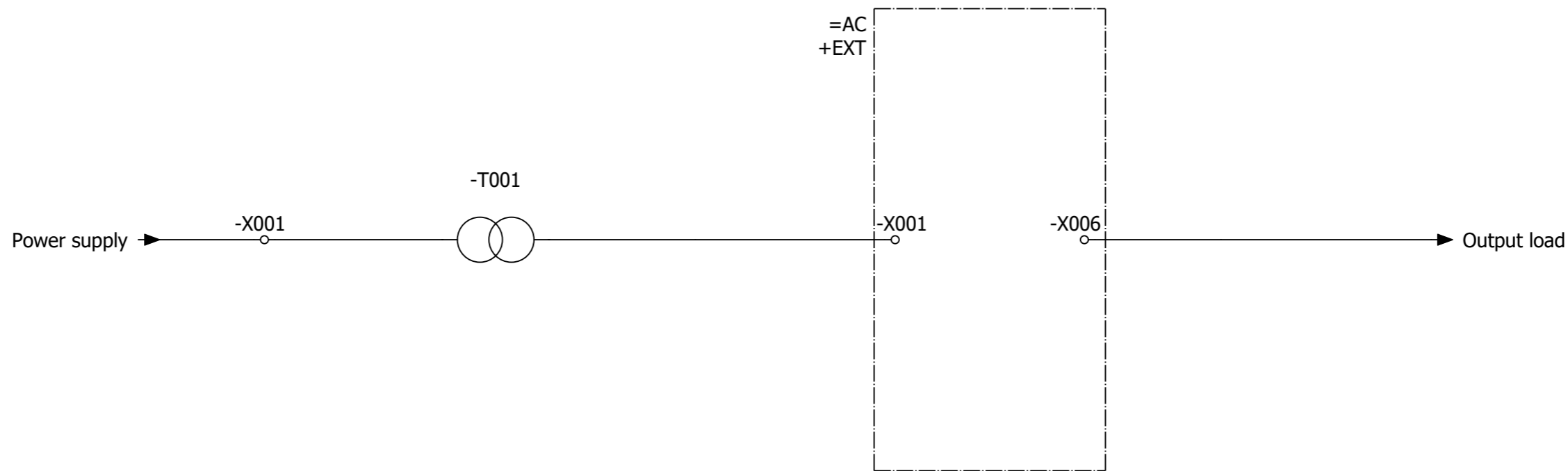
"Schutzvermerk ISO 16016 beachten"

# Table of contents

PPS\_F06\_001

Page	Page description	Date	Edited by
/1	Title page/cover sheet	15.11.2021	dirk.wittenberg
/2	Table of contents	09.02.2022	dirk.wittenberg
/3	Single Line	09.02.2022	dirk.wittenberg
/4	Circuit diagram	09.02.2022	dirk.wittenberg
=REPORT+ASL/5	Parts list	09.02.2022	dirk.wittenberg
=REPORT+KLP/6	Terminal diagram =+-X001	09.02.2022	dirk.wittenberg
=REPORT+KLP/7	Terminal diagram =+-X101	17.11.2021	dirk.wittenberg

© Piller Group GmbH  
"Schutzvermerk ISO 16016 beachten"



Modification	Date	Name	Date	09.02.2022
621463	09.02.2022	WIT	Ed	dirk.wittenberg
	Output date	Name	Appr	Schmidt
	09.02.2022	dirk.wittenberg	Original	

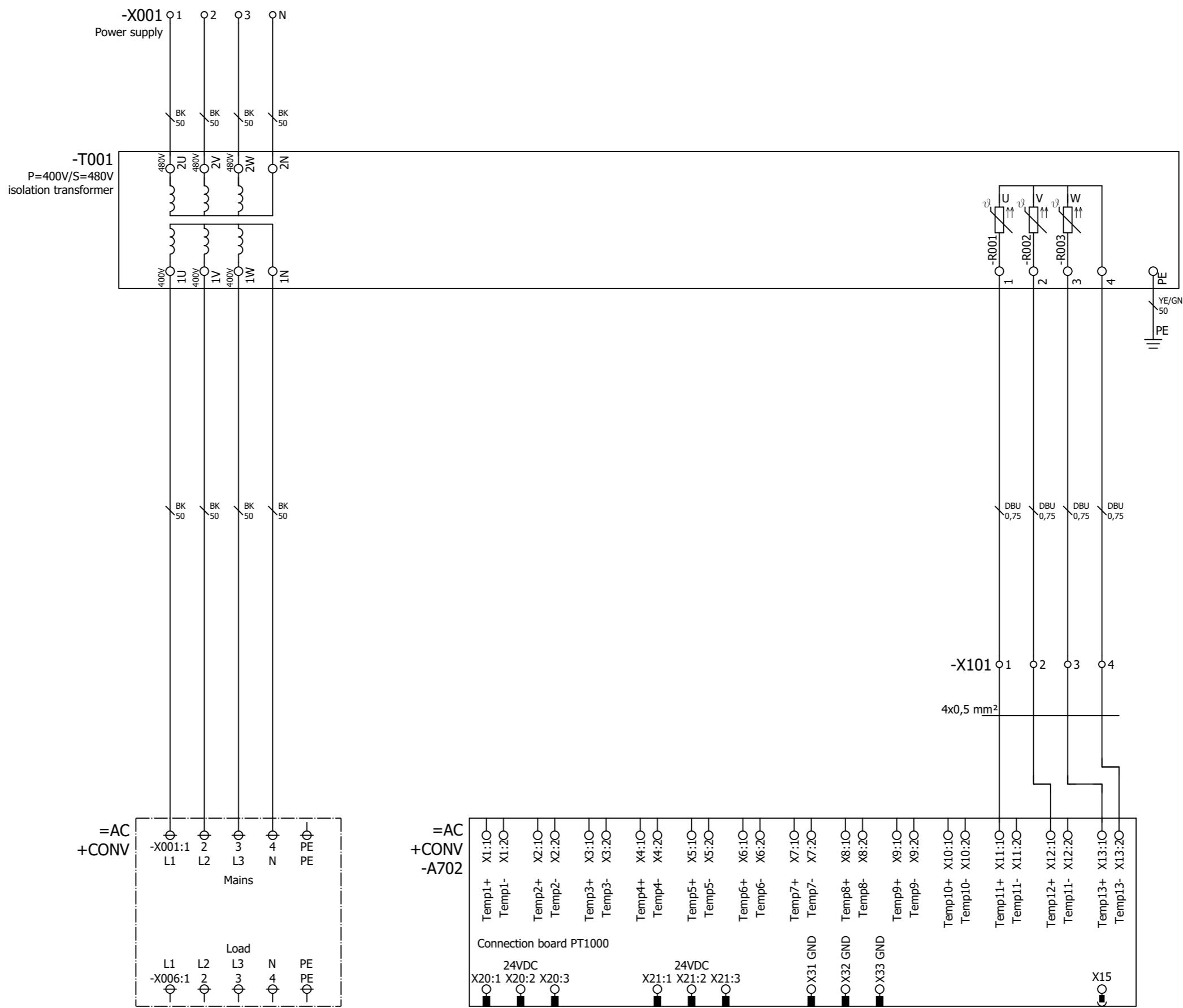
AC 200 option input transformer 480/400V	
Replacement of	Replaced by



Single Line

=	
1 : 1 +	
4480991913	

INDEX	Page
001	3
	From



3

Modification	Date	Name	Date	09.02.2022
621463	09.02.2022	WIT	Ed	dirk.wittenberg
	Output date	Name	Appr	Schmidt
	09.02.2022	dirk.wittenberg	Original	

AC 200 option input transformer 480/400V	
Replacement of	Replaced by



Circuit diagram

=	
1 : 1 +	
4480991913	INDEX 001
Page 4	From

=REPORT+ASL/5

# Parts list

PPS\_F01\_002DYN

Device tag	Part number	Designation	Quantity	Page / column
			0	4.7
	0071000656	Wire 0,75 mm2 PVC UL/CSA/HAR dark blue	4	.
	0071000754	Wire 50 mm2 PVC UL/CSA/HAR bk	8	.
-T001	0048421701	Trenntrafo 132kVA P:400 S:480 , 60Hz	1	4.2
-X001	0045740218	Feed-through terminal RK150 PA 1124.2 beige	3	4.2;4.3
-X001	0045740219	Feed-through terminal RK150 PA 1124.5 blue	1	4.3
-X101	0045740149	Terminal WDU 4 102010 beige	4	4.7

© Piller Group GmbH  
"Schutzvermerk ISO 16016 beachten"

=+/4

+KLP/6

Modification	Date	Name	Date	09.02.2022
621463	09.02.2022	WIT	Ed	dirk.wittenberg
	Output date	Name	Appr	Schmidt
	09.02.2022	dirk.wittenberg	Original	

AC 200 option input transformer 480/400V	
Replacement of	Replaced by



Parts list

= REPORT	
1 : 1	+ ASL
4480991913	INDEX 001
Page 5	From 7

# Terminal diagram

PPS\_F13\_001

function text	Cable name	cable type	Strip =+-X001				Cable name	cable type	Page / column	
			Target designation	Connection point	terminal <small>external</small>	Level <small>internal</small>				jumper
Power supply					1		•	-T001	2U	/4.2
=					2		•	-T001	2V	/4.2
=					3		•	-T001	2W	/4.3
=					N		•	-T001	2N	/4.3

+ASL/5

Modification	Date	Name	Date	09.02.2022
621463	09.02.2022	WIT	Ed	dirk.wittenberg
	Output date	Name	Appr	Schmidt
	09.02.2022	dirk.wittenberg	Original	

AC 200 option input transformer 480/400V  
 Replacement of Replaced by



Terminal diagram =+-X001

= REPORT	
1 : 1	+ KLP
4480991913	
INDEX 001	Page 6
	From 7

© Pillar Group GmbH "Observe protection marks ISO 16016"

# Terminal diagram

PPS\_F13\_001

function text	Cable name	cable type	Strip =+-X101						Cable name	cable type	Page / column
			Target designation	Connection point	terminal designation external	Level Internal	jumper	Target designation			
Temperature sensor			=AC+CONV-A702	X11:1	1		.	-T001	1	/4.7	
=			=AC+CONV-A702	X12:1	2		.	-T001	2	/4.7	
=			=AC+CONV-A702	X13:1	3		.	-T001	3	/4.7	
=			=AC+CONV-A702	X13:2	4		.	-T001	4	/4.7	

© Piller Group GmbH  
"Observe protection marks ISO 16016"  
"Schutzvermerk ISO 16016 beachten"

Modification	Date	Name	Date	17.11.2021
621463	09.02.2022	WIT	Ed	dirk.wittenberg
	Output date	Name	Appr	Schmidt
	09.02.2022	dirk.wittenberg	Original	
AC 200 option input transformer 480/400V		Replacement of		
		Replaced by		

