
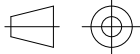





P	02	20.04.2018	BECVAR	NEMEC	RULIK	
P	01	25.01.2018	ZIZKA	NEMEC	RULIK	FOR APPROVAL
P	00	29.11.2017	ZIZKA	NEMEC	RULIK	INTRODUCTORY
STA.	REV.	DATE	PREP.	CHCK.	APPR.	COMMENT
EMPLOYER Contract Number VKJ_S_2016-92			EMPLOYER Project Code VKJ01		<div> Lietuvos energija</div> <div>VILNIAUS KOGENERACINĖ JĖGAINĖ</div>	
EMPLOYER DOCUMENT DESIGNATION PROJECT CODE VKJ01					LANGUAGE EN	REV NO 02
LOT ID -					DOC COUNTER 730866	STATUS AFEP
CODE WORD CHP - Vilnius					FILENAME VKJ01-1730866-EN-01	VIEW 
	DATE	NAME	<div> </div>			
PREP.	20.04.2018	BECVAR				
CHECKED	20.04.2018	NEMECEK				
APPROV.	20.04.2018	RULIK				
SCALE	TITLE GENERATOR EXCITATION SYSTEM V20CGA10 DIAGRAMS AND CHARTS					
DESIGN COMPANY 			DRAWING NO. 6066-7DS-200			FORMAT A4

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Title: VILNIUS BIOMASS, LITHUANIA 93.176MVA
EXCITATION SYSTEM WITH
UNITROL 6000 Medium
SLD AND WIRING OF EXCITATION SYSTEM

Customer: Siemens, s.r.o.

File name: ..\EPLAN4\P\

Total pages: 42

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ABB_INVY

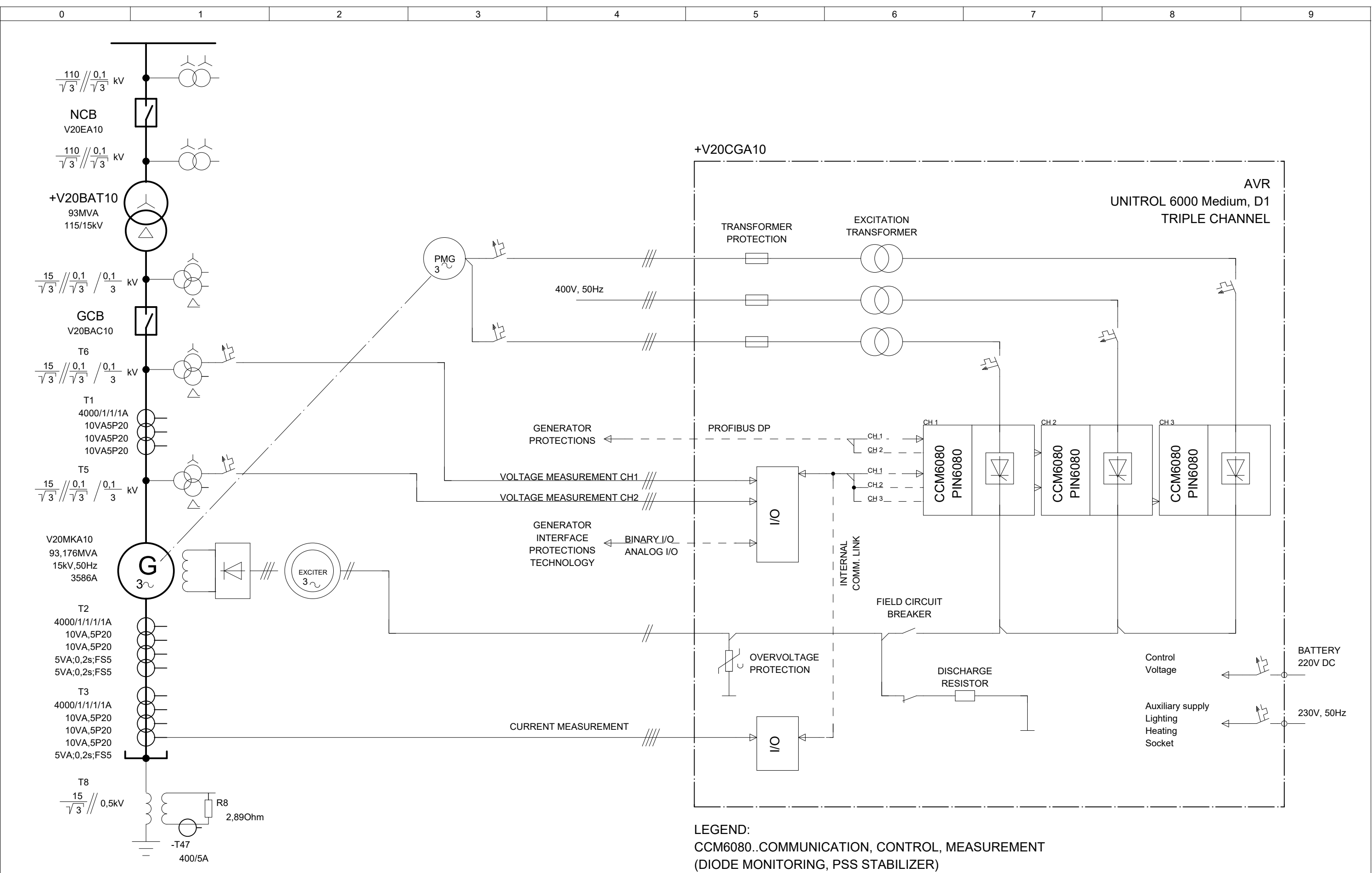
Page	Designation	Date	Name	PRODUCT	PART
=V20CGA10/0	TITLE PAGE	25.01.2018	ZIZ	V20CGA10	ER
=V20CGA10/1	TITLE PAGE	13.12.2017	ZIZ	V20CGA10	ER
=V20CGA10/2	CONTENS	25.01.2018	ZIZ	V20CGA10	
=V20CGA10/3	CONTENS	25.01.2018	ZIZ	V20CGA10	
=V20CGA10/5	LIST OF SYMBOLS	13.12.2017	ZIZ	V20CGA10	ER
=V20CGA10/10	WIRING COLOURS	13.12.2017	ZIZ	V20CGA10	ER
=V20CGA10/21	SINGLE LINE OF AVR	25.01.2018	ZIZ	V20CGA10	ER
=V20CGA10/22	HUMAN MACHINE INTERFACE	09.01.2018	ZIZ	V20CGA10	ER
=V20CGA10/60	PART LIST	21.01.2018	ZIZ	V20CGA10	ER
=V20CGA10/61	PART LIST	21.01.2018	ZIZ	V20CGA10	ER
=V20CGA10/62	PART LIST	21.01.2018	ZIZ	V20CGA10	ER
=V20CGA10/63	PART LIST	21.01.2018	ZIZ	V20CGA10	ER
=V20CGA10/64	PART LIST	21.01.2018	ZIZ	V20CGA10	ER
=V20CGA10/65	PART LIST	21.01.2018	ZIZ	V20CGA10	ER
=V20CGA10/110	AC - INPUT	21.01.2018	ZIZ	V20CGA10	ER
=V20CGA10/112	CONVERTER	13.12.2017	ZIZ	V20CGA10	ER
=V20CGA10/120	DC - OUTPUT	13.12.2017	ZIZ	V20CGA10	ER
=V20CGA10/145	AUXILIARY CIRCUITS	13.12.2017	ZIZ	V20CGA10	ER
=V20CGA10/150	INTERNAL POWER SUPPLY	13.12.2017	ZIZ	V20CGA10	ER
=V20CGA10/152	INTERNAL POWER SUPPLY	13.12.2017	ZIZ	V20CGA10	ER
=V20CGA10/154	INTERNAL POWER SUPPLY	13.12.2017	ZIZ	V20CGA10	ER
=V20CGA10/210	CONTROL/CONVERTER 1	13.12.2017	ZIZ	V20CGA10	ER
=V20CGA10/220	CONTROL/CONVERTER 2	13.12.2017	ZIZ	V20CGA10	ER
=V20CGA10/230	CONTROL/CONVERTER 3	13.12.2017	ZIZ	V20CGA10	ER
=V20CGA10/235	CCM & CIO SIGNAL OVERVIEW	25.01.2018	ZIZ	V20CGA10	ER
=V20CGA10/238	ACTUAL VALUE MEASUREMENT	09.01.2018	ZIZ	V20CGA10	ER
=V20CGA10/251	COMBINED INPUT/OUTPUT CIO #1	21.01.2018	ZIZ	V20CGA10	ER
=V20CGA10/286	MONITORING	13.12.2017	ZIZ	V20CGA10	ER
=V20CGA10/360	TRIP CIRCUIT	09.01.2018	ZIZ	V20CGA10	ER
=V20CGA10/362	TRIP CIRCUIT	13.12.2017	ZIZ	V20CGA10	ER

			Date	25.lėd.2018	VILNIUS BIOMASS LITHUANIA STG 93.176MVA			CONTENS	Drawing No. INET/171551/c		6066-7DS-200_B	
			Name	ZIZ					1 < > 3			
			Check.									
Revision	Date	Name	Job No	17905/BS	Subst. c	Orig.	New		Group	Product = V20CGA10	Part +	Page 2 from 910

0	1	2	3	4	5	6	7	8	9
	SIGNAL COMMON		TWISTED PAIR CABLE		RESISTOR		NORMALLY OPEN		
	GROUND CONNECTION				SHIELDED CABLE			RESISTOR ADJUSTABLE	
	EMC - CONNECTION -CHS: CHASIS CONNECTION (SCREW) -W109: EARTHING STRAP CONNECTION		MULTIWIRE CABLE WITH CONNECTOR		POTENTIOMETR		CHANGE OVER CONTACT WITHOUT BREAK		
	ONLY ONE CABLE CONNECTION POSSIBLE		CONNECTOR WITH PIN NUMBERS		NONLINEAR REZISTOR		CONTACT OPERATE DELAY		
	CLAMP				VARISTOR		CONTACT FALL DELAY		
	TEST POINT		NOT CONNECTED SHIELD END		TEMPERATURE DEPENDENT RESISTOR		WIPING CONTACT		
	X1000 SOLDERING POINTS CLOSED				SHUNT		CONTACT EARLY CLOSING		
	X1000 SOLDERING POINTS OPEN				CAPACITOR		CHANGE OVER CONTACT WITHOUT BREAK WITHOUT INTERRUPTION		
	ELEMENT ON SOLDERING POINTS: INSERTED (e.g. RESISTOR)				DIODE		FUSE WITH AUX. CONTACT		LIMIT SWITCH
	ELEMENT ON SOLDERING POINTS: NOT EQUIPPED (e.g. CAPACITOR)		ZENER DIODE		HEATER		CONTACT NORMALLY OPEN WITH AUTOMATIC OVERCURRENT TRIP		
			LED		INDICATION LAMP ILLUMINATION		CIRCUIT BREAKER		
			THYRISTOR				ISOLATOR		
			BREAK OVER DIODE (BOD)				CONNECTING LINK		
			OPTO - COUPLER				CIRCUIT BREAKER WITH AUTOMATIC RELEASE		

			Date	13.pro.2017	VILNIUS BIOMASS LITHUANIA STG 93.176MVA				LIST OF SYMBOLS	Drawing No. INET/171551/c		6066-7DS-200_B	
			Name	ZIZ						3	< >	10	
			Check.										
Revision	Date	Name	Job No	17905/BS	Subst. c	Orig.	New	Group		Product = V20CGA10	Part +ER	Page 5 from 910	

WIRING COLOURS (DIN 40705)			DESCRIPTION OF THE CABLE MARKING:		
AC POWER SUPPLY: 3x250/400 Vac PHASE L NEUTRAL N EARTH PE,PEN			black (BK)	WL...INTERFACE SUPPLY	
			light blue (BUL)	WS...INTERFACE SIGNAL	
			green-yellow (GNYE)	WU...INTERFACE UNITROL	
DC POWER SUPPLY 220 V dc			black (BK)	WI...INTERFACE INTERNAL	
			light blue (BUL)		black (BK)
DC CONTROL WIRING 220 Vdc			red (RD)		
			red (RD)		
DC POWER SUPPLY 24 V dc			black (BK)		
			light blue (BUL)		
CONTROL WIRING 24 Vdc			brown (BN)		
ANALOG CIRCUIT AND OTHER LV CIRCUIT			white (WH)		gray (GY)
SECONDARY WIRING OF CT			black (BK)		
			light blue (BUL)		
SECONDARY WIRING OF VT			black (BK)	THE AVR MEETS THE REQUIREMENTS, SEE: "3BHS245441 E15 - UN6000 M Functional Description v2.2.00.pdf"	
			light blue (BUL)		
EXTERNAL VOLTAGE			orange(OG)		
TWISTED WIRING			TW		
SHORT CIRCUIT RESISTANT			SC		
SEPARATE CIRCUIT			SP		



			Date	16.bře.2018	VILNIUS BIOMASS LITHUANIA STG 93.176MVA				SINGLE LINE OF AVR	Drawing No. INET/171551/c		6066-7DS-200_B	
			Name	ZIZ						10		< > 22	
			Check.							Group		Product = V20CGA10	
Revision	Date	Name	Job No	17905/BS	Subst. c	Orig.	New					from 910	

0	1	2	3	4	5	6	7	8	9
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PARTS LIST

INVO002E 12.06.2002

Marking	Quantity		Title	Type	Supplier	Code	page/column
	Pcs.	Total					
+ER-A10	1	3	UNITROL 6080 D1 INCL. CCM 6080 & PIN 6080	UNS 4908 A V5004	ABB GROUP	ABB.UNS 4908 A V5004	=V20CGA10/210.1
+ER-A10-U10	1	2	FIG MODULE PROFIBUS DP	FPBA-01	ABB GROUP	ABB.FPBA-01	=V20CGA10/533.1
+ER-A10-U10	1	2	BUS INTERFACE CONNECTOR RS485	6ES7972-0BA52-0XA0	Siemens s.r.o.	SIE.6ES7972-0BA52-0XA0	=V20CGA10/533.1
+ER-A10-U10	1	2	FIG MODULE PLUG ADAPTOR	P2X10HEADER	ABB Ind. AG, Switzerland	ABB.P2X10HEADER	=V20CGA10/533.1
+ER-A20	1	3	UNITROL 6080 D1 INCL. CCM 6080 & PIN 6080	UNS 4908 A V5004	ABB GROUP	ABB.UNS 4908 A V5004	=V20CGA10/220.1
+ER-A20-U10	1	2	FIG MODULE PROFIBUS DP	FPBA-01	ABB GROUP	ABB.FPBA-01	=V20CGA10/533.1
+ER-A20-U10	1	2	BUS INTERFACE CONNECTOR RS485	6ES7972-0BA52-0XA0	Siemens s.r.o.	SIE.6ES7972-0BA52-0XA0	=V20CGA10/533.1
+ER-A20-U10	1	2	FIG MODULE PLUG ADAPTOR	P2X10HEADER	ABB Ind. AG, Switzerland	ABB.P2X10HEADER	=V20CGA10/533.1
+ER-A30	1	3	UNITROL 6080 D1 INCL. CCM 6080 & PIN 6080	UNS 4908 A V5004	ABB GROUP	ABB.UNS 4908 A V5004	=V20CGA10/230.1
+ER-A51	1	1	CIO COMBINED INPUT OUTPUT FGPA	PC D235	ABB GROUP	ABB.PC D235	=V20CGA10/251.1
+ER-B91	1	1	THERMOSTAT FOR FANS	SK 3110.000	Rittal GmbH & Co.KG	RIT.SK3110.000	=V20CGA10/145.6
+ER-E901	1	1	LED SYSTEM LIGHT	SZ 2500.200	Rittal GmbH & Co.KG	RIT.SZ2500.200	=V20CGA10/145.6
+ER-E901	1	1	INFEED, 3-pole, 3m	SZ 2500.400	Rittal GmbH & Co.KG	RIT.SZ2500.400	=V20CGA10/145.6
+ER-E901	1	1	DOOR SWITCH	SZ 2500.460	Rittal GmbH & Co.KG	RIT.SZ2500.460	=V20CGA10/145.6
+ER-E911	1	1	ENCLOSURE HEATER	SK 3105.340	Rittal GmbH & Co.KG	RIT.SK3105.340	=V20CGA10/145.5
+ER-F60	1	2	FUSE DISCONNECT SWITCHES 2P	RMS 50 2P	SOCOMET	SOC.RMS50-2P	=V20CGA10/150.1
+ER-F60	3	6	CYLINDRICAL FUSELINKS 4AgG WITH STRIKER	14X51 4AGG S	SOCOMET	SOC.14X51-04AGG-S	=V20CGA10/150.1
+ER-F63	1	2	FUSE DISCONNECT SWITCHES 2P	RMS 50 2P	SOCOMET	SOC.RMS50-2P	=V20CGA10/150.1
+ER-F63	3	6	CYLINDRICAL FUSELINKS 4AgG WITH STRIKER	14X51 4AGG S	SOCOMET	SOC.14X51-04AGG-S	=V20CGA10/150.1
+ER-F501 1	1	4	FUSE TERMINAL BLOCK	UK 10-DREHSI (6,3X32)	PHOENIX CONTACT, s.r.o	PHO.UK10-DREHSI(6,3X32)	=V20CGA10/120.6
+ER-F501 1	2	8	FUSE GLASS GF2A 6,3X32	GF632220	OMEGA FUSIBILI S.p.A.	OME.GF2A 6,3X32 1500A	=V20CGA10/120.6
+ER-F501 1	1	4	FEMALE TEST CONNECTOR	PSB 4/7/6	PHOENIX CONTACT, s.r.o	PHO.PSB 4/7/6	=V20CGA10/120.6
+ER-F501 1	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/120.6
+ER-F501 2	1	4	FUSE TERMINAL BLOCK	UK 10-DREHSI (6,3X32)	PHOENIX CONTACT, s.r.o	PHO.UK10-DREHSI(6,3X32)	=V20CGA10/120.7
+ER-F501 2	2	8	FUSE GLASS GF2A 6,3X32	GF632220	OMEGA FUSIBILI S.p.A.	OME.GF2A 6,3X32 1500A	=V20CGA10/120.7
+ER-F501 2	1	4	FEMALE TEST CONNECTOR	PSB 4/7/6	PHOENIX CONTACT, s.r.o	PHO.PSB 4/7/6	=V20CGA10/120.7
+ER-F501 2	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/120.7
+ER-F502 1	1	4	FUSE TERMINAL BLOCK	UK 10-DREHSI (6,3X32)	PHOENIX CONTACT, s.r.o	PHO.UK10-DREHSI(6,3X32)	=V20CGA10/120.8
+ER-F502 1	2	8	FUSE GLASS GF2A 6,3X32	GF632220	OMEGA FUSIBILI S.p.A.	OME.GF2A 6,3X32 1500A	=V20CGA10/120.8
+ER-F502 1	1	4	FEMALE TEST CONNECTOR	PSB 4/7/6	PHOENIX CONTACT, s.r.o	PHO.PSB 4/7/6	=V20CGA10/120.8
+ER-F502 1	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/120.8
+ER-F502 2	1	4	FUSE TERMINAL BLOCK	UK 10-DREHSI (6,3X32)	PHOENIX CONTACT, s.r.o	PHO.UK10-DREHSI(6,3X32)	=V20CGA10/120.8
+ER-F502 2	2	8	FUSE GLASS GF2A 6,3X32	GF632220	OMEGA FUSIBILI S.p.A.	OME.GF2A 6,3X32 1500A	=V20CGA10/120.8
+ER-F502 2	1	4	FEMALE TEST CONNECTOR	PSB 4/7/6	PHOENIX CONTACT, s.r.o	PHO.PSB 4/7/6	=V20CGA10/120.8
+ER-F502 2	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/120.8
+ER-G80	1	2	POWER SUPPLY 90..350Vdc/24Vdc,10A	QUINT-PS-100-240/24VDC/10	PHOENIX CONTACT, s.r.o	PHO.QUINTPS10A	=V20CGA10/152.1
+ER-G81	1		POWER SUPPLY 90..350Vdc/24Vdc,10A	QUINT-PS-100-240/24VDC/10	PHOENIX CONTACT, s.r.o	PHO.QUINTPS10A	=V20CGA10/152.1
+ER-K90	1	11	RELAY INTERFACE MODULES	58.33.9.024.0050	FINDER	FIN.583390240050	=V20CGA10/145.9
+ER-K200	1	1	RELAY INTERFACE MODULES	58.34.9.024.0050	FINDER	FIN.583490240050	=V20CGA10/3

			Date	20.dub.2018	VILNIUS BIOMASS LITHUANIA STG 93.176MVA			PART LIST	Drawing No. INET/171551/c		6066-7DS-200_B	
		Name	ZIZ	22							< >	61
		Check.									Group	Product
Revision	Date	Name	Job No	17905/BS	Subst. c	Orig.	New		= V20CGA10	+ER	from	910

PARTS LIST

INVO002E 12.06.2002

Marking	Quantity		Title	Type	Supplier	Code	page/column
	Pcs.	Total					
+ER-P06	1	1	DC ANALOGUE MOVING COIL METER, DIAL 90°	PQ96K 60MV/25A	Weigel	WEI.PQ96K-60MV-25A	=V20CGA10/120.6
+ER-P08	1	1	DC ANALOGUE MOVING COIL METER, DIAL 90°	PQ96K +-150V	Weigel	WEI.PQ96K+-150V	=V20CGA10/120.8
+ER-Q02	1	1	CONTACTOR 2NO+2NC	AL26-22-00 24	ABB GROUP	ABB.AL26-22-00.24	=V20CGA10/365.2
+ER-Q02	1	1	AUXILIARY CONTACT FRONT 3NO+1NC	CA5-31E	ABB GROUP	ABB.CA5-31E	=V20CGA10/365.2
+ER-Q02	1	1	VARISTOR, 24V-50V AC/DC	RV 5/50	ABB GROUP	ABB.RV5.50	=V20CGA10/365.2
+ER-Q10	1	3	CIRCUIT BREAKER-Z-20A	S203M-Z20	ABB GROUP	ABB.S203M-Z20	=V20CGA10/112.2
+ER-Q10	1	5	AUXILIARY CONTACTS FOR S200	S2C-H6R	ABB GROUP	ABB.S2C-H6R	=V20CGA10/112.2
+ER-Q20	1	3	CIRCUIT BREAKER-Z-20A	S203M-Z20	ABB GROUP	ABB.S203M-Z20	=V20CGA10/112.5
+ER-Q20	1	5	AUXILIARY CONTACTS FOR S200	S2C-H6R	ABB GROUP	ABB.S2C-H6R	=V20CGA10/112.5
+ER-Q30	1	3	CIRCUIT BREAKER-Z-20A	S203M-Z20	ABB GROUP	ABB.S203M-Z20	=V20CGA10/112.7
+ER-Q30	1	5	AUXILIARY CONTACTS FOR S200	S2C-H6R	ABB GROUP	ABB.S2C-H6R	=V20CGA10/112.7
+ER-Q71	1	3	FUSEGEAR SWITCH FUSES OS	OS40FD12000-2	ABB GROUP	ABB.OS40FD12000-2	=V20CGA10/110.2
+ER-Q71	3	6	FUSE 16A, gG, 500V	OFAF000H16	ABB GROUP	ABB.OFAF000H16	=V20CGA10/110.2
+ER-Q71	1	3	FRONT OPERATED HANDLES FOR OS Mini	OHBS5	ABB GROUP	ABB.OHBS5	=V20CGA10/110.2
+ER-Q72	1	3	FUSEGEAR SWITCH FUSES OS	OS40FD12000-2	ABB GROUP	ABB.OS40FD12000-2	=V20CGA10/110.2
+ER-Q72	3	3	FUSE 10A, gG, 500V	OFAF000H10	ABB GROUP	ABB.OFAF000H10	=V20CGA10/110.2
+ER-Q72	1	3	FRONT OPERATED HANDLES FOR OS Mini	OHBS5	ABB GROUP	ABB.OHBS5	=V20CGA10/110.2
+ER-Q73	1	3	FUSEGEAR SWITCH FUSES OS	OS40FD12000-2	ABB GROUP	ABB.OS40FD12000-2	=V20CGA10/110.2
+ER-Q73	3	6	FUSE 16A, gG, 500V	OFAF000H16	ABB GROUP	ABB.OFAF000H16	=V20CGA10/110.2
+ER-Q73	1	3	FRONT OPERATED HANDLES FOR OS Mini	OHBS5	ABB GROUP	ABB.OHBS5	=V20CGA10/110.2
+ER-Q80	1	1	CIRCUIT BREAKER-K-10A	S202M-K10UC	ABB GROUP	ABB.S202M-K10UC	=V20CGA10/150.1
+ER-Q80	1	5	AUXILIARY CONTACTS FOR S200	S2C-H6R	ABB GROUP	ABB.S2C-H6R	=V20CGA10/150.1
+ER-Q90	1	1	COMPL. CURR. PROTECTION, 1+NPOLE, B10, 30mA	DS201 M B10 AC30	ABB GROUP	ABB.DS201MB10AC30	=V20CGA10/145.1
+ER-Q90	1	5	AUXILIARY CONTACTS FOR S200	S2C-H6R	ABB GROUP	ABB.S2C-H6R	=V20CGA10/145.1
+ER-Q801	1	2	APD Murr MICO	ADVANCED POWER	MURR Elektronik CZ s.r.o.	MUR.MICO46	=V20CGA10/154.1
+ER-Q802	1		APD Murr MICO	ADVANCED POWER	MURR Elektronik CZ s.r.o.	MUR.MICO46	=V20CGA10/154.1
+ER-Q810	1	1	FUSE TERMINAL BLOCK 8,2mm	ST 4-FSI/C	PHOENIX CONTACT, s.r.o	PHO.ST4-FSIC	=V20CGA10/152.8
+ER-Q810	1	1	MINIATURE CIRCUIT-BREAKER 15A	TCP 15/DC32V	PHOENIX CONTACT, s.r.o	PHO.TCP15-DC32V	=V20CGA10/152.8
+ER-Q810	1	1	TEST ADAPTER	PAI-4	PHOENIX CONTACT, s.r.o	PHO.PAI-4	=V20CGA10/152.8
+ER-R02	1	1	WIRE-WOUND RESISTOR	TR305-5R6	TBP s.r.o. Blatná	TB.TR305-5R6	=V20CGA10/120.3
+ER-R06	1	1	SHUNT	BA 60MV/25A-0,5	Weigel	WEI.BA-60MV-25A-05	=V20CGA10/120.6
+ER-R08	1	1	POWER VARISTOR	SIOV-B60K440	EPCOS AG	EPC.SIOV-B60K440	=V20CGA10/120.4
+ER-R10	1	3	WIRE-WOUND RESISTOR	TR305-2K0	TBP s.r.o. Blatná	TB.TR305-2K0	=V20CGA10/210.6
+ER-R20	1		WIRE-WOUND RESISTOR	TR305-2K0	TBP s.r.o. Blatná	TB.TR305-2K0	=V20CGA10/220.6
+ER-R30	1		WIRE-WOUND RESISTOR	TR305-2K0	TBP s.r.o. Blatná	TB.TR305-2K0	=V20CGA10/230.6
+ER-T63	1	2	1P TRANSFORMER	YTT 630.022	CZECHMONT, s.r.o.	CZE.YTT630.022	=V20CGA10/150.2
+ER-T71	1	2	3P TRANSFORMER YD	YDT 2500 250/98	CZECHMONT, s.r.o.	CZE.YDT2500 250/98	=V20CGA10/110.3
+ER-T72	1	1	3P TRANSFORMER YD	YDT 2500 400/98	CZECHMONT, s.r.o.	CZE.YDT2500 400/98	=V20CGA10/110.3
+ER-T73	1	2	3P TRANSFORMER YD	YDT 2500 250/98	CZECHMONT, s.r.o.	CZE.YDT2500 250/98	=V20CGA10/110.3
+ER-U501	1	2	PROGRAMMABLE 3-WAY-TRANSDUCER	MINI MCR-SL-UI-UI-SP-NC	PHOENIX CONTACT, s.r.o	PHO.MINIMCR-SL-UI-UI-SPNC	=V20CGA10/910.3
+ER-U514	1		PROGRAMMABLE 3-WAY-TRANSDUCER	MINI MCR-SL-UI-UI-SP-NC	PHOENIX CONTACT, s.r.o	PHO.MINIMCR-SL-UI-UI-SPNC	=V20CGA10/908.3
+ER-V80	1	1	ICU INPUT COUPLING UNIT (70V SUPERVISION)	KS D211 A101	ABB GROUP	ABB.KS D211 A101	=V20CGA10/150.6
+ER-V800	1	1	POWER SCHOTTKY RECTIFIER	DSS 2X81-0045B	IXYS Semiconductor	IXY.DSS 2X81-0045B	=V20CGA10/152.4
+ER-W11	4	9	3-CONDUCTOR THROUGH TERMINAL BLOCK	282-681	WAGO Elektro spol. s r.o.	WAG.282-681	=V20CGA10/112.2
+ER-W11	1	3	END AND INTERMEDIATE PLATE	282-308	WAGO Elektro spol. s r.o.	WAG.282-308	=V20CGA10/112.2
+ER-W11	2	2	SCREWLESS END STOP	249-117	WAGO Elektro spol. s r.o.	WAG.249-117	=V20CGA10/112.2
+ER-W110	1	3	ETHERNET CABLE	RJ45 CAT. 5E SF/UTP	INVELT PLZEN CZ	INV.RJ45CAT.5ESF/UTP	=V20CGA10/22.4
+ER-W120	1		ETHERNET CABLE	RJ45 CAT. 5E SF/UTP	INVELT PLZEN CZ	INV.RJ45CAT.5ESF/UTP	=V20CGA10/22.6
+ER-W501	1	3	CABLE SUB-D9M with free ends	3BHE026488RXXXX	INVELT PLZEN CZ	INV.3BHE026488RXXXX	=V20CGA10/910.1
+ER-W502	1		CABLE SUB-D9M with free ends	3BHE026488RXXXX	INVELT PLZEN CZ	INV.3BHE026488RXXXX	=V20CGA10/910.1

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Marking	Quantity		Title	Type	Supplier	Code	page/column
	Pcs.	Total					
+ER-W503	1		CABLE SUB-D9M with free ends	3BHE026488RXXXX	INVELT PLZEN CZ	INV.3BHE026488RXXXX	=V20CGA10/910.1
+ER-W510	1	2	CABLE D SUB-B--S/09S/C22/1,5M	CABLE D SUB-B--S/09S/C22/1,5M	PHOENIX CONTACT, s.r.o	PHO.CABLE D SUB-B--S/09S/	=V20CGA10/908.1
+ER-W511	1		CABLE D SUB-B--S/09S/C22/1,5M	CABLE D SUB-B--S/09S/C22/1,5M	PHOENIX CONTACT, s.r.o	PHO.CABLE D SUB-B--S/09S/	=V20CGA10/908.1
+ER-W514	1	1	CABLE SUB-D9M with free ends	3BHE025496RXXXX	INVELT PLZEN CZ	INV.3BHE025496RXXXX	=V20CGA10/908.1
+ER-WOP01	1	5	OPTICAL CABLE 2-pole	OPTOCABLE	INVELT PLZEN CZ	INV.INET081245	=V20CGA10/210.3
+ER-WOP02	1		OPTICAL CABLE 2-pole	OPTOCABLE	INVELT PLZEN CZ	INV.INET081245	=V20CGA10/210.3
+ER-WOP03	1		OPTICAL CABLE 2-pole	OPTOCABLE	INVELT PLZEN CZ	INV.INET081245	=V20CGA10/210.4
+ER-WOP04	1		OPTICAL CABLE 2-pole	OPTOCABLE	INVELT PLZEN CZ	INV.INET081245	=V20CGA10/220.4
+ER-X01	3	11	3-CONDUCTOR THROUGH TERMINAL BLOCK	283-671	WAGO Elektro spol. s r.o.	WAG.283-671	=V20CGA10/900.3
+ER-X01	1	4	END AND INTERMEDIATE PLATE	283-350	WAGO Elektro spol. s r.o.	WAG.283-350	=V20CGA10/900.3
+ER-X01	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/900.3
+ER-X01	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/900.3
+ER-X02	3	11	3-CONDUCTOR THROUGH TERMINAL BLOCK	283-671	WAGO Elektro spol. s r.o.	WAG.283-671	=V20CGA10/900.3
+ER-X02	1	4	END AND INTERMEDIATE PLATE	283-350	WAGO Elektro spol. s r.o.	WAG.283-350	=V20CGA10/900.3
+ER-X02	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/900.3
+ER-X02	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/900.3
+ER-X03	3	11	3-CONDUCTOR THROUGH TERMINAL BLOCK	283-671	WAGO Elektro spol. s r.o.	WAG.283-671	=V20CGA10/900.3
+ER-X03	1	4	END AND INTERMEDIATE PLATE	283-350	WAGO Elektro spol. s r.o.	WAG.283-350	=V20CGA10/900.3
+ER-X03	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/900.3
+ER-X03	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/900.3
+ER-X05	2	11	3-CONDUCTOR THROUGH TERMINAL BLOCK	283-671	WAGO Elektro spol. s r.o.	WAG.283-671	=V20CGA10/900.3
+ER-X05	1	4	END AND INTERMEDIATE PLATE	283-350	WAGO Elektro spol. s r.o.	WAG.283-350	=V20CGA10/900.3
+ER-X05	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/900.3
+ER-X05	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/900.3
+ER-X10	7	20	CROSS CONNECTION TERMINAL BLOCK	URTK/S	PHOENIX CONTACT, s.r.o	PHO.URTKS	=V20CGA10/901.3
+ER-X10	1	3	COVER FOR URTK/S	D-URTK	PHOENIX CONTACT, s.r.o	PHO.D-URTK	=V20CGA10/901.3
+ER-X10	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/901.3
+ER-X10	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/901.3
+ER-X11	6	20	CROSS CONNECTION TERMINAL BLOCK	URTK/S	PHOENIX CONTACT, s.r.o	PHO.URTKS	=V20CGA10/901.3
+ER-X11	1	3	COVER FOR URTK/S	D-URTK	PHOENIX CONTACT, s.r.o	PHO.D-URTK	=V20CGA10/901.3
+ER-X11	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/901.3
+ER-X11	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/901.3
+ER-X20	7	20	CROSS CONNECTION TERMINAL BLOCK	URTK/S	PHOENIX CONTACT, s.r.o	PHO.URTKS	=V20CGA10/901.3
+ER-X20	1	3	COVER FOR URTK/S	D-URTK	PHOENIX CONTACT, s.r.o	PHO.D-URTK	=V20CGA10/901.3
+ER-X20	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/901.3
+ER-X20	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/901.3
+ER-X031	2	39	4-CONDUCTOR THROUGH TERMINAL BLOCK	280-833	WAGO Elektro spol. s r.o.	WAG.280-833	=V20CGA10/360.3
+ER-X031	1	16	END AND INTERMEDIATE PLATE	280-314	WAGO Elektro spol. s r.o.	WAG.280-314	=V20CGA10/360.3
+ER-X031	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/360.3
+ER-X031	1	37	ADJACENT JUMPER, INSULATED	280-402	WAGO Elektro spol. s r.o.	WAG.280-402	=V20CGA10/360.3
+ER-X031	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/360.3
+ER-X032	2	39	4-CONDUCTOR THROUGH TERMINAL BLOCK	280-833	WAGO Elektro spol. s r.o.	WAG.280-833	=V20CGA10/360.3
+ER-X032	1	16	END AND INTERMEDIATE PLATE	280-314	WAGO Elektro spol. s r.o.	WAG.280-314	=V20CGA10/360.3
+ER-X032	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/360.3
+ER-X032	1	37	ADJACENT JUMPER, INSULATED	280-402	WAGO Elektro spol. s r.o.	WAG.280-402	=V20CGA10/360.3
+ER-X032	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/360.3
+ER-X50	4	39	4-CONDUCTOR THROUGH TERMINAL BLOCK	280-833	WAGO Elektro spol. s r.o.	WAG.280-833	=V20CGA10/910.2
+ER-X50	1	16	END AND INTERMEDIATE PLATE	280-314	WAGO Elektro spol. s r.o.	WAG.280-314	=V20CGA10/910.2
+ER-X50	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/910.2
+ER-X50	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/910.2

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+ER-X50 1	2	39	4-CONDUCTOR THROUGH TERMINAL BLOCK	280-833	WAGO Elektro spol. s r.o.	WAG.280-833	=V20CGA10/235.8
+ER-X50 1	1	16	END AND INTERMEDIATE PLATE	280-314	WAGO Elektro spol. s r.o.	WAG.280-314	=V20CGA10/235.8
+ER-X50 1	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/235.8
+ER-X50 1	1	37	ADJACENT JUMPER, INSULATED	280-402	WAGO Elektro spol. s r.o.	WAG.280-402	=V20CGA10/235.8
+ER-X50 1	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/235.8
+ER-X50 2	2	39	4-CONDUCTOR THROUGH TERMINAL BLOCK	280-833	WAGO Elektro spol. s r.o.	WAG.280-833	=V20CGA10/235.8
+ER-X50 2	1	16	END AND INTERMEDIATE PLATE	280-314	WAGO Elektro spol. s r.o.	WAG.280-314	=V20CGA10/235.8
+ER-X50 2	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/235.8
+ER-X50 2	1	37	ADJACENT JUMPER, INSULATED	280-402	WAGO Elektro spol. s r.o.	WAG.280-402	=V20CGA10/235.8
+ER-X50 2	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/235.8
+ER-X51 1	3	39	4-CONDUCTOR THROUGH TERMINAL BLOCK	280-833	WAGO Elektro spol. s r.o.	WAG.280-833	=V20CGA10/251.8
+ER-X51 1	1	16	END AND INTERMEDIATE PLATE	280-314	WAGO Elektro spol. s r.o.	WAG.280-314	=V20CGA10/251.8
+ER-X51 1	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/251.8
+ER-X51 1	2	37	ADJACENT JUMPER, INSULATED	280-402	WAGO Elektro spol. s r.o.	WAG.280-402	=V20CGA10/251.8
+ER-X51 1	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/251.8
+ER-X51 2	3	39	4-CONDUCTOR THROUGH TERMINAL BLOCK	280-833	WAGO Elektro spol. s r.o.	WAG.280-833	=V20CGA10/251.8
+ER-X51 2	1	16	END AND INTERMEDIATE PLATE	280-314	WAGO Elektro spol. s r.o.	WAG.280-314	=V20CGA10/251.8
+ER-X51 2	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/251.8
+ER-X51 2	2	37	ADJACENT JUMPER, INSULATED	280-402	WAGO Elektro spol. s r.o.	WAG.280-402	=V20CGA10/251.8
+ER-X51 2	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/251.8
+ER-X80	2	9	3-CONDUCTOR THROUGH TERMINAL BLOCK	282-681	WAGO Elektro spol. s r.o.	WAG.282-681	=V20CGA10/900.3
+ER-X80	1	3	END AND INTERMEDIATE PLATE	282-308	WAGO Elektro spol. s r.o.	WAG.282-308	=V20CGA10/900.3
+ER-X80	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/900.3
+ER-X80	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/900.3
+ER-X90	3	9	3-CONDUCTOR THROUGH TERMINAL BLOCK	282-681	WAGO Elektro spol. s r.o.	WAG.282-681	=V20CGA10/900.3
+ER-X90	1	3	END AND INTERMEDIATE PLATE	282-308	WAGO Elektro spol. s r.o.	WAG.282-308	=V20CGA10/900.3
+ER-X90	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/900.3
+ER-X90	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/900.3
+ER-X90	1	1	3-CONDUCTOR THROUGH TERMINAL BLOCK	282-684	WAGO Elektro spol. s r.o.	WAG.282-684	=V20CGA10/900.3
+ER-X90	1	1	3-CONDUCTOR EARTH TERMINAL BLOCK	282-687	WAGO Elektro spol. s r.o.	WAG.282-687	=V20CGA10/900.3
+ER-X90 1	2	39	4-CONDUCTOR THROUGH TERMINAL BLOCK	280-833	WAGO Elektro spol. s r.o.	WAG.280-833	=V20CGA10/145.1
+ER-X90 1	1	16	END AND INTERMEDIATE PLATE	280-314	WAGO Elektro spol. s r.o.	WAG.280-314	=V20CGA10/145.1
+ER-X90 1	1	37	ADJACENT JUMPER, INSULATED	280-402	WAGO Elektro spol. s r.o.	WAG.280-402	=V20CGA10/145.1
+ER-X90 1	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/145.1
+ER-X90 1	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/145.1
+ER-X90 2	2	2	4-CONDUCTOR THROUGH TERMINAL BLOCK	280-834	WAGO Elektro spol. s r.o.	WAG.280-834	=V20CGA10/145.1
+ER-X90 2	1	16	END AND INTERMEDIATE PLATE	280-314	WAGO Elektro spol. s r.o.	WAG.280-314	=V20CGA10/145.1
+ER-X90 2	1	37	ADJACENT JUMPER, INSULATED	280-402	WAGO Elektro spol. s r.o.	WAG.280-402	=V20CGA10/145.1
+ER-X90 2	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/145.1
+ER-X90 2	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/145.1
+ER-X90 3	1	39	4-CONDUCTOR THROUGH TERMINAL BLOCK	280-833	WAGO Elektro spol. s r.o.	WAG.280-833	=V20CGA10/145.4
+ER-X90 3	1	16	END AND INTERMEDIATE PLATE	280-314	WAGO Elektro spol. s r.o.	WAG.280-314	=V20CGA10/145.4
+ER-X90 3	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/145.4
+ER-X90 3	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/145.4
+ER-X100	14	91	3-CONDUCTOR THROUGH TERMINAL BLOCK	280-641	WAGO Elektro spol. s r.o.	WAG.280-641	=V20CGA10/903.3
+ER-X100	1	9	END AND INTERMEDIATE PLATE	280-312	WAGO Elektro spol. s r.o.	WAG.280-312	=V20CGA10/903.3
+ER-X100	9	37	ADJACENT JUMPER, INSULATED	280-402	WAGO Elektro spol. s r.o.	WAG.280-402	=V20CGA10/903.3
+ER-X100	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/903.3
+ER-X100	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/903.3
+ER-X110	6	91	3-CONDUCTOR THROUGH TERMINAL BLOCK	280-641	WAGO Elektro spol. s r.o.	WAG.280-641	=V20CGA10/903.3

			Date	20.dub.2018	VILNIUS BIOMASS LITHUANIA STG 93.176MVA			PART LIST	Drawing No. INET/171551/c		6066-7DS-200_B			
			Name	ZIZ					62		< >		64	
			Check.											
Revision	Date	Name	Job No	17905/BS	Subst. c	Orig.	New		Group	Product = V20CGA10	Part +ER	Page 63 from 910		

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+ER-X110	1	9	END AND INTERMEDIATE PLATE	280-312	WAGO Elektro spol. s r.o.	WAG.280-312	=V20CGA10/903.3
+ER-X110	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/903.3
+ER-X110	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/903.3
+ER-X160	1	2	VARIOFACE MODULE, with screw connection	FLKM-D 9 SUB/B	PHOENIX CONTACT, s.r.o	PHO.FLKM-D 9 SUB/B	=V20CGA10/533.4
+ER-X160	1	2	BUS INTERFACE CONNECTOR RS485	6GK1500-0FC10	Siemens s.r.o.	SIE.6GK1500-0FC10	=V20CGA10/533.4
+ER-X161	1	2	VARIOFACE MODULE, with screw connection	FLKM-D 9 SUB/B	PHOENIX CONTACT, s.r.o	PHO.FLKM-D 9 SUB/B	=V20CGA10/533.4
+ER-X161	1	2	BUS INTERFACE CONNECTOR RS485	6GK1500-0FC10	Siemens s.r.o.	SIE.6GK1500-0FC10	=V20CGA10/533.4
+ER-X200	13	91	3-CONDUCTOR THROUGH TERMINAL BLOCK	280-641	WAGO Elektro spol. s r.o.	WAG.280-641	=V20CGA10/904.3
+ER-X200	1	9	END AND INTERMEDIATE PLATE	280-312	WAGO Elektro spol. s r.o.	WAG.280-312	=V20CGA10/904.3
+ER-X200	4	37	ADJACENT JUMPER, INSULATED	280-402	WAGO Elektro spol. s r.o.	WAG.280-402	=V20CGA10/904.3
+ER-X200	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/904.3
+ER-X200	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/904.3
+ER-X210	28	91	3-CONDUCTOR THROUGH TERMINAL BLOCK	280-641	WAGO Elektro spol. s r.o.	WAG.280-641	=V20CGA10/905.3
+ER-X210	1	9	END AND INTERMEDIATE PLATE	280-312	WAGO Elektro spol. s r.o.	WAG.280-312	=V20CGA10/905.3
+ER-X210	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/905.3
+ER-X210	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/905.3
+ER-X510	1	2	VARIOFACE MODULE, with screw connection	FLKM-D 9 SUB/S	PHOENIX CONTACT, s.r.o	PHO.FLKM-D 9 SUB/S	=V20CGA10/908.3
+ER-X511	1		VARIOFACE MODULE, with screw connection	FLKM-D 9 SUB/S	PHOENIX CONTACT, s.r.o	PHO.FLKM-D 9 SUB/S	=V20CGA10/908.3
+ER-X515	2	91	3-CONDUCTOR THROUGH TERMINAL BLOCK	280-641	WAGO Elektro spol. s r.o.	WAG.280-641	=V20CGA10/908.3
+ER-X515	1	9	END AND INTERMEDIATE PLATE	280-312	WAGO Elektro spol. s r.o.	WAG.280-312	=V20CGA10/908.3
+ER-X515	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/908.3
+ER-X515	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/908.3
+ER-X516	2	91	3-CONDUCTOR THROUGH TERMINAL BLOCK	280-641	WAGO Elektro spol. s r.o.	WAG.280-641	=V20CGA10/908.3
+ER-X516	1	9	END AND INTERMEDIATE PLATE	280-312	WAGO Elektro spol. s r.o.	WAG.280-312	=V20CGA10/908.3
+ER-X516	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/908.3
+ER-X516	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/908.3
+ER-X700	10	91	3-CONDUCTOR THROUGH TERMINAL BLOCK	280-641	WAGO Elektro spol. s r.o.	WAG.280-641	=V20CGA10/902.3
+ER-X700	1	9	END AND INTERMEDIATE PLATE	280-312	WAGO Elektro spol. s r.o.	WAG.280-312	=V20CGA10/902.3
+ER-X700	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/902.3
+ER-X700	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/902.3
+ER-X800	16	91	3-CONDUCTOR THROUGH TERMINAL BLOCK	280-641	WAGO Elektro spol. s r.o.	WAG.280-641	=V20CGA10/902.3
+ER-X800	1	9	END AND INTERMEDIATE PLATE	280-312	WAGO Elektro spol. s r.o.	WAG.280-312	=V20CGA10/902.3
+ER-X800	2	37	ADJACENT JUMPER, INSULATED	280-402	WAGO Elektro spol. s r.o.	WAG.280-402	=V20CGA10/902.3
+ER-X800	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/902.3
+ER-X800	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/902.3
+ER-X810	3	39	4-CONDUCTOR THROUGH TERMINAL BLOCK	280-833	WAGO Elektro spol. s r.o.	WAG.280-833	=V20CGA10/152.7
+ER-X810	1	16	END AND INTERMEDIATE PLATE	280-314	WAGO Elektro spol. s r.o.	WAG.280-314	=V20CGA10/152.7
+ER-X810	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/152.7
+ER-X810	2	37	ADJACENT JUMPER, INSULATED	280-402	WAGO Elektro spol. s r.o.	WAG.280-402	=V20CGA10/152.7
+ER-X810	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/152.7
+ER-X812	7	39	4-CONDUCTOR THROUGH TERMINAL BLOCK	280-833	WAGO Elektro spol. s r.o.	WAG.280-833	=V20CGA10/152.5
+ER-X812	1	16	END AND INTERMEDIATE PLATE	280-314	WAGO Elektro spol. s r.o.	WAG.280-314	=V20CGA10/152.5
+ER-X812	6	37	ADJACENT JUMPER, INSULATED	280-402	WAGO Elektro spol. s r.o.	WAG.280-402	=V20CGA10/152.5
+ER-X812	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/152.5
+ER-X812	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/152.5
+ER-X822	2	39	4-CONDUCTOR THROUGH TERMINAL BLOCK	280-833	WAGO Elektro spol. s r.o.	WAG.280-833	=V20CGA10/154.7
+ER-X822	1	16	END AND INTERMEDIATE PLATE	280-314	WAGO Elektro spol. s r.o.	WAG.280-314	=V20CGA10/154.7
+ER-X822	1	41	SCREWLESS END STOP 6 MM	249-116	WAGO Elektro spol. s r.o.	WAG.249-116	=V20CGA10/154.7
+ER-X822	1	37	ADJACENT JUMPER, INSULATED	280-402	WAGO Elektro spol. s r.o.	WAG.280-402	=V20CGA10/154.7
+ER-X822	1	33	ADJUSTABLE HEIGHT GROUP MARKER	249-119	WAGO Elektro spol. s r.o.	WAG.249-119	=V20CGA10/154.7

0	1	2	3	4	5	6	7	8	9
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PARTS LIST

INVO002E 12.06.2002

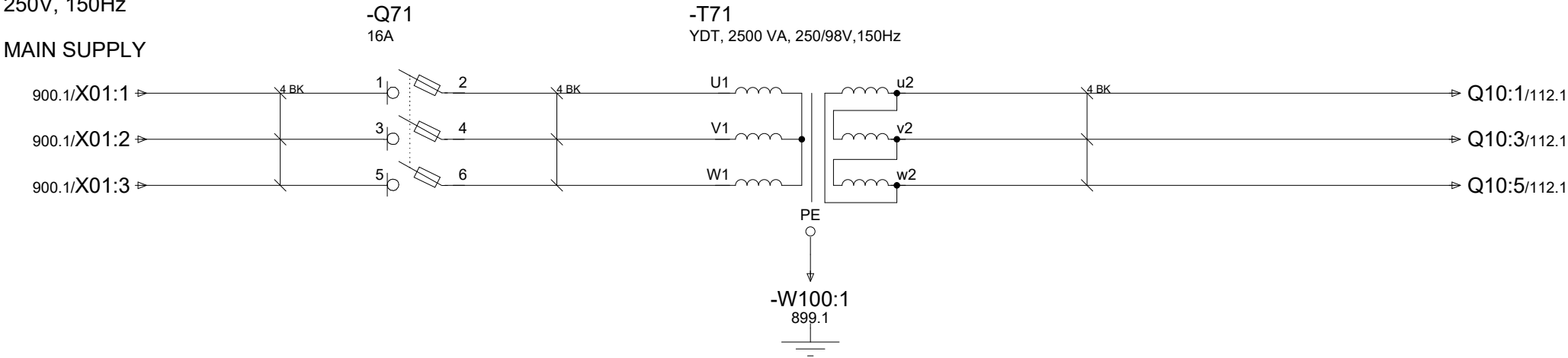
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			Date	20.dub.2018	VILNIUS BIOMASS LITHUANIA STG 93.176MVA			PART LIST	Drawing No. INET/171551/c		6066-7DS-200_B		
			Name	ZIZ							64 < > 110		
			Check.								Group		Product
Revision	Date	Name	Job No	17905/BS	Subst. c	Orig.	New			= V20CGA10	+ER	65	
												from	910

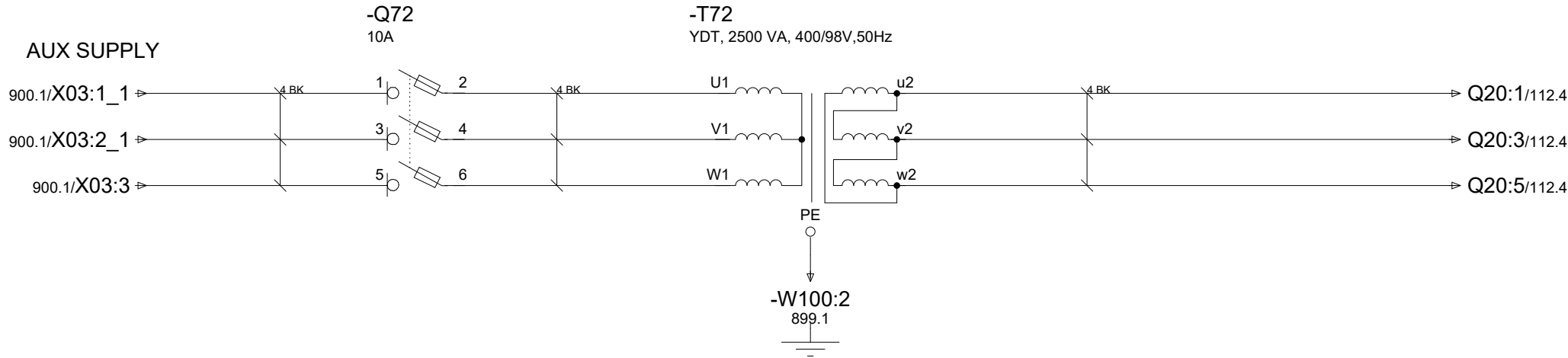
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CONVERTER SUPPLY		FUSELINK		TEST TRANSFORMER					

250V, 150Hz

MAIN SUPPLY

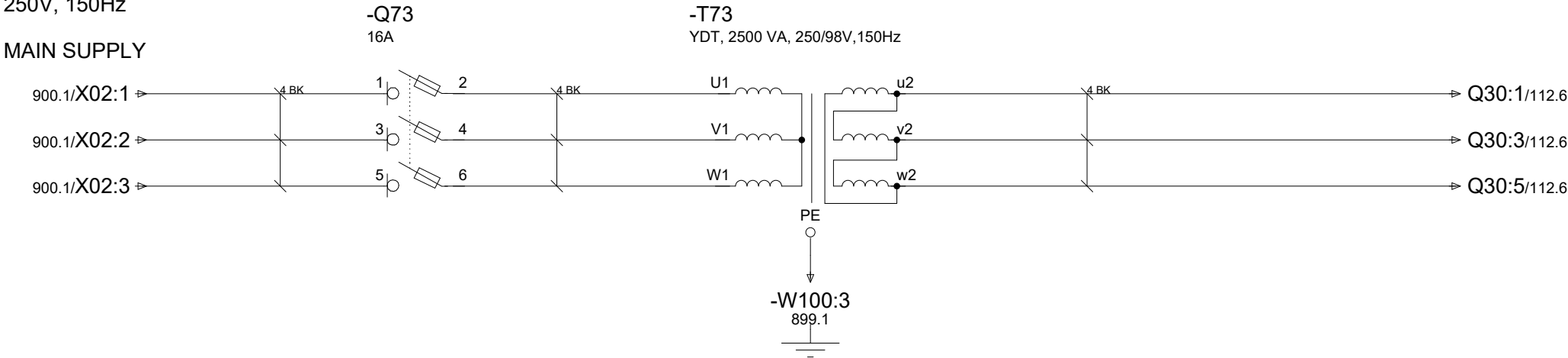


AUX SUPPLY



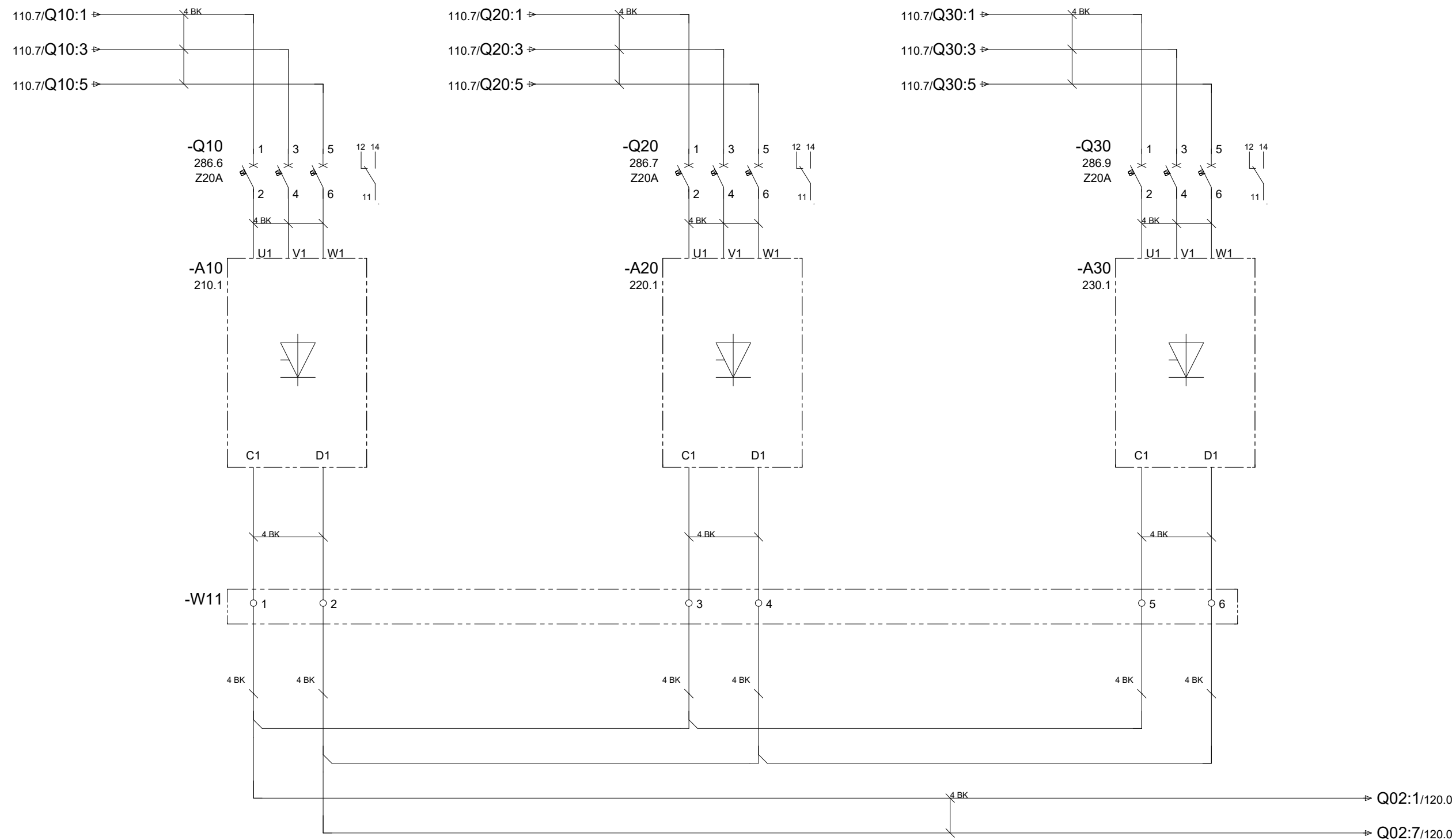
250V, 150Hz

MAIN SUPPLY



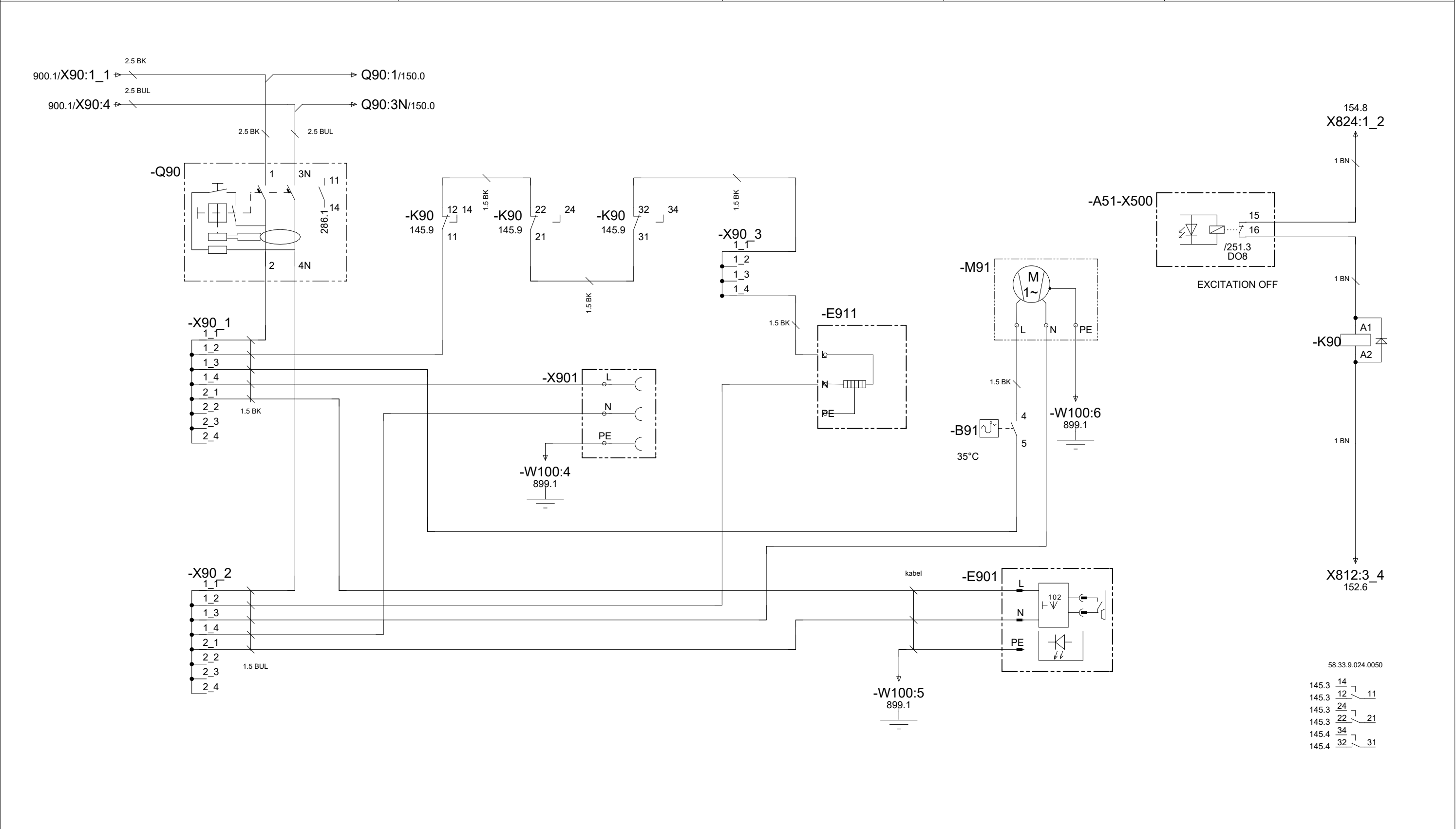
			Date	21.led.2018	VILNIUS BIOMASS LITHUANIA STG 93.176MVA					AC - INPUT			Drawing No. INET/171551/c			6066-7DS-200_B		
			Name	ZIZ												65 < > 112		
			Check.													Group		
Revision	Date	Name	Job No	17905/BS	Subst. c	Orig.	New								from 910			

0	1	2	3	4	5	6	7	8	9
	CONVERTER 1			CONVERTER 2			CONVERTER 3		



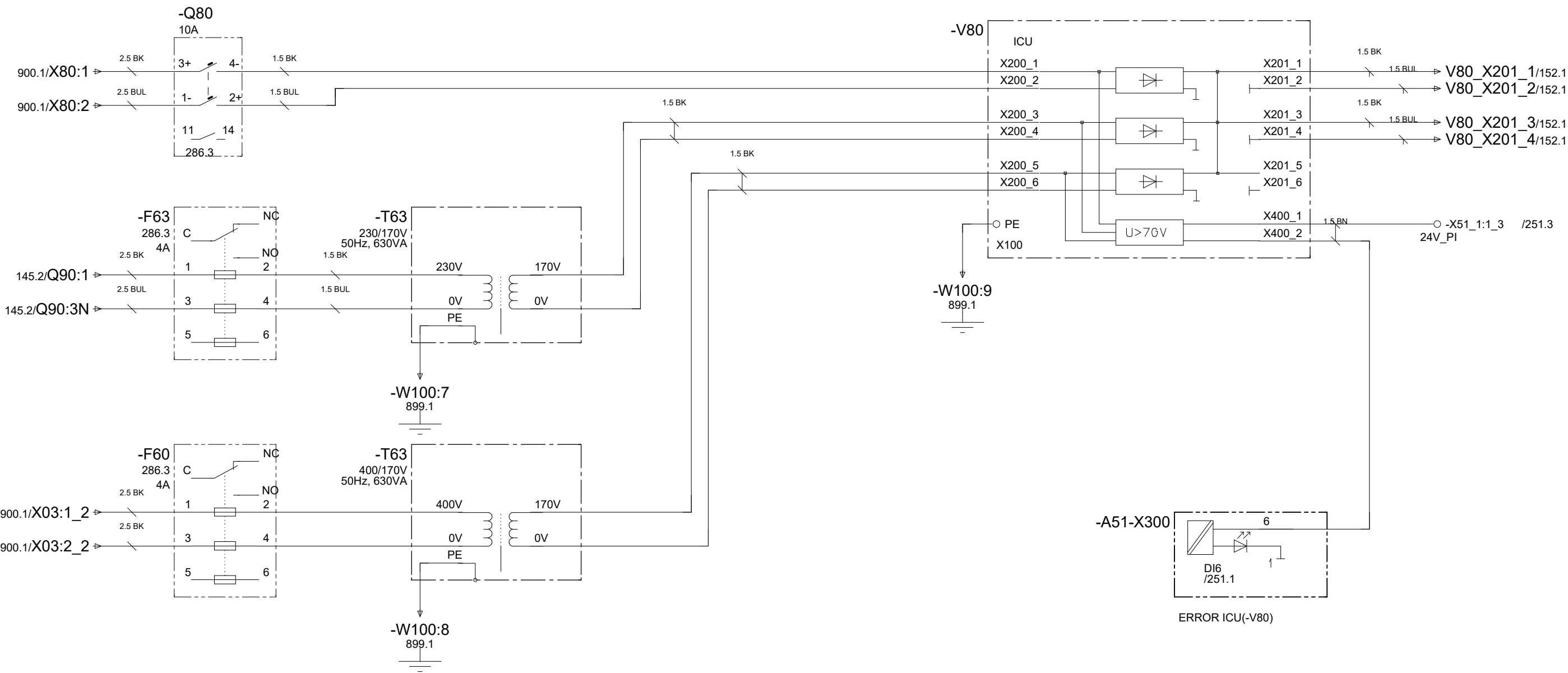
			Date	13.pro.2017	VILNIUS BIOMASS LITHUANIA STG 93.176MVA			<i>invelt</i> <i>elektro</i> <i>s.r.o.</i>		CONVERTER			Drawing No. INET/171551/c		6066-7DS-200_B		
			Name	ZIZ											110 < > 120		
			Check.										Group		Product = V20CGA10		Part +ER
Revision	Date	Name	Job No	17905/BS	Subst. c	Orig.	New							from 910			

0	1	2	3	4	5	6	7	8	9
AUXILIARY SUPPLY 230V AC, 50Hz, 10A			SOCKET		HEATING		LIGHT LIGHT		HEATING ON/OFF CONTROL



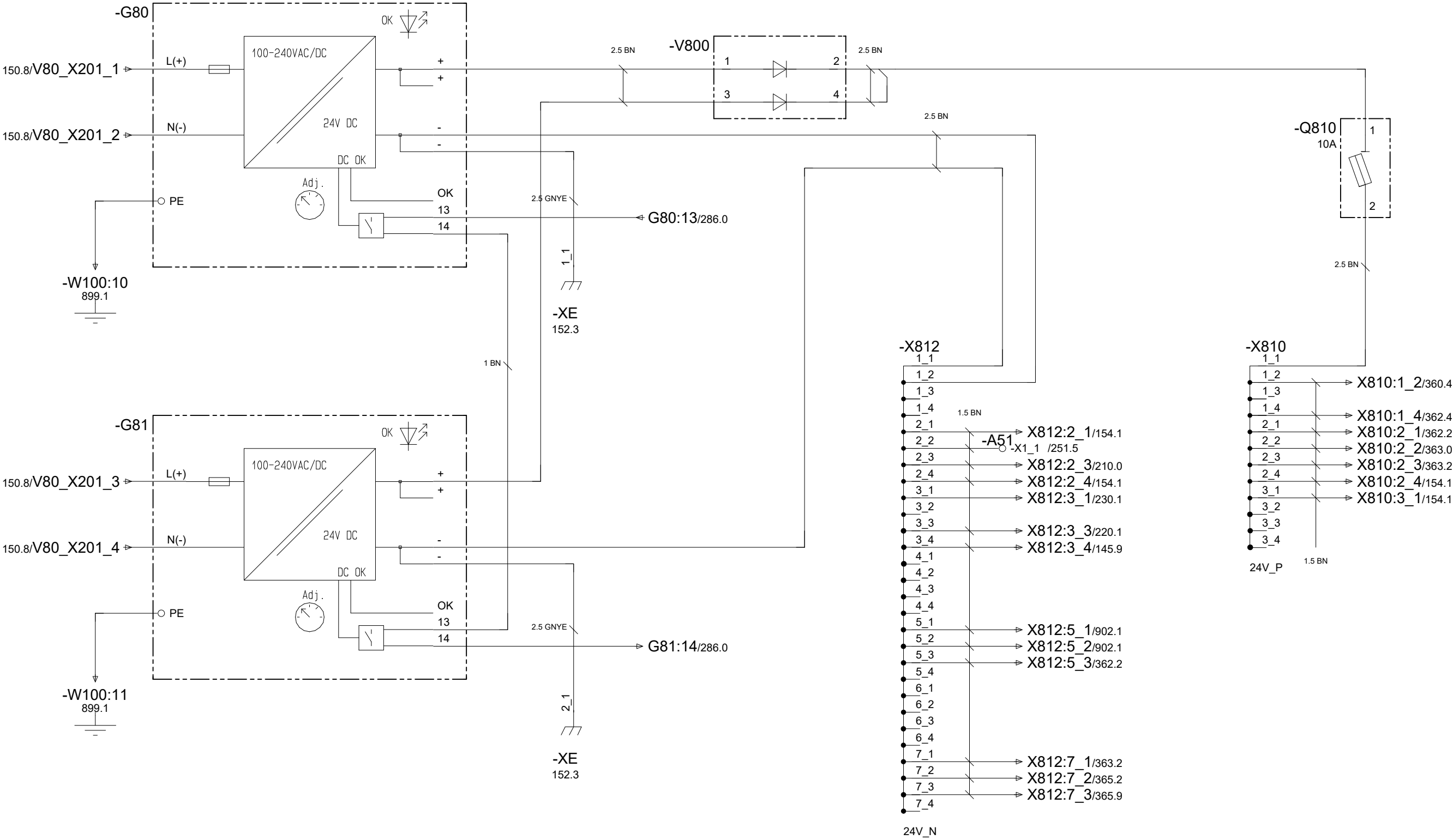
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			Name	ZIZ								120	< >
			Check.									Group	Product
Revision	Date	Name	Job No	17905/BS	Subst. c	Orig.	New		= V20CGA10	+ ER	from	910	

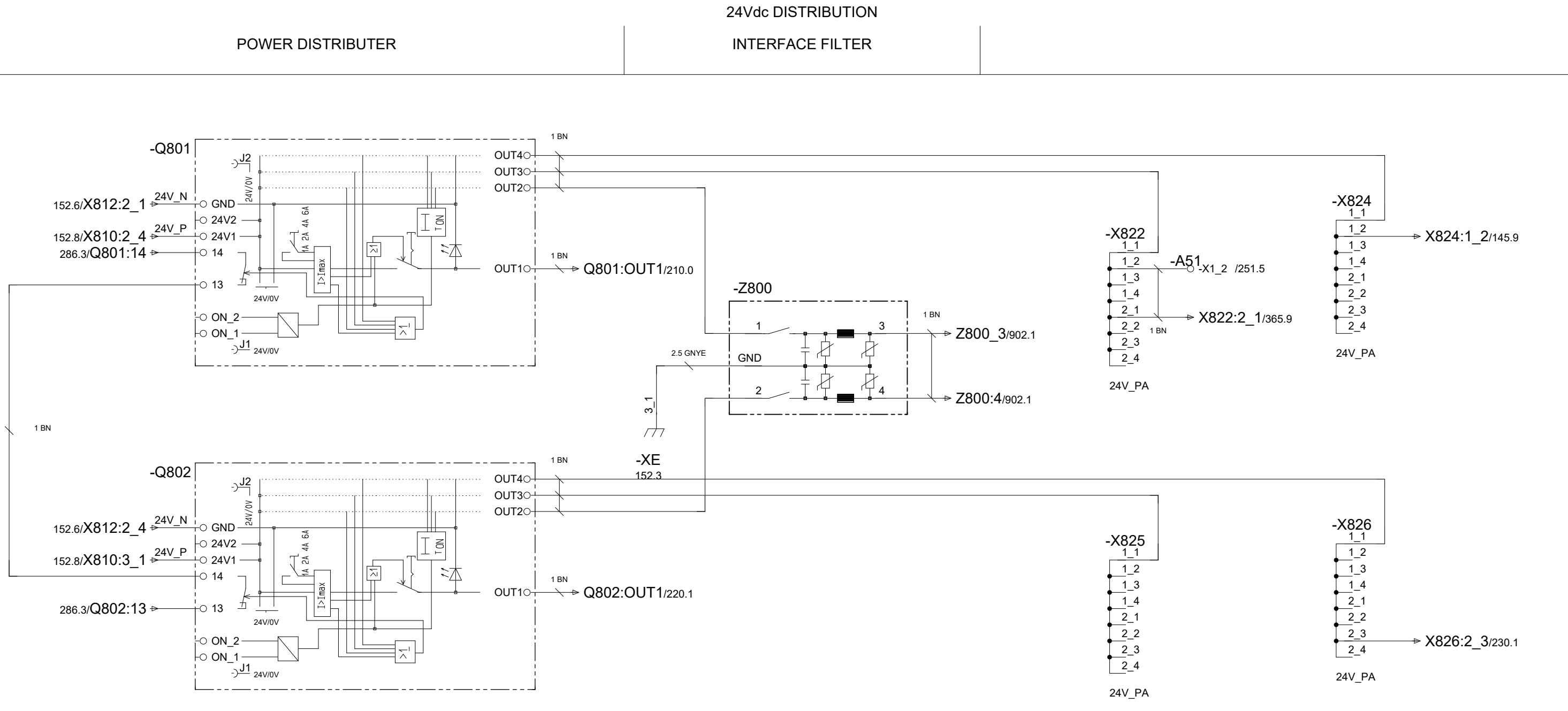
0	1	2	3	4	5	6	7	8	9
BATTERY SUPPLY			POWER SUPPLY COUPLING						
BACK-UP SUPPLY									
BACK-UP SUPPLY									

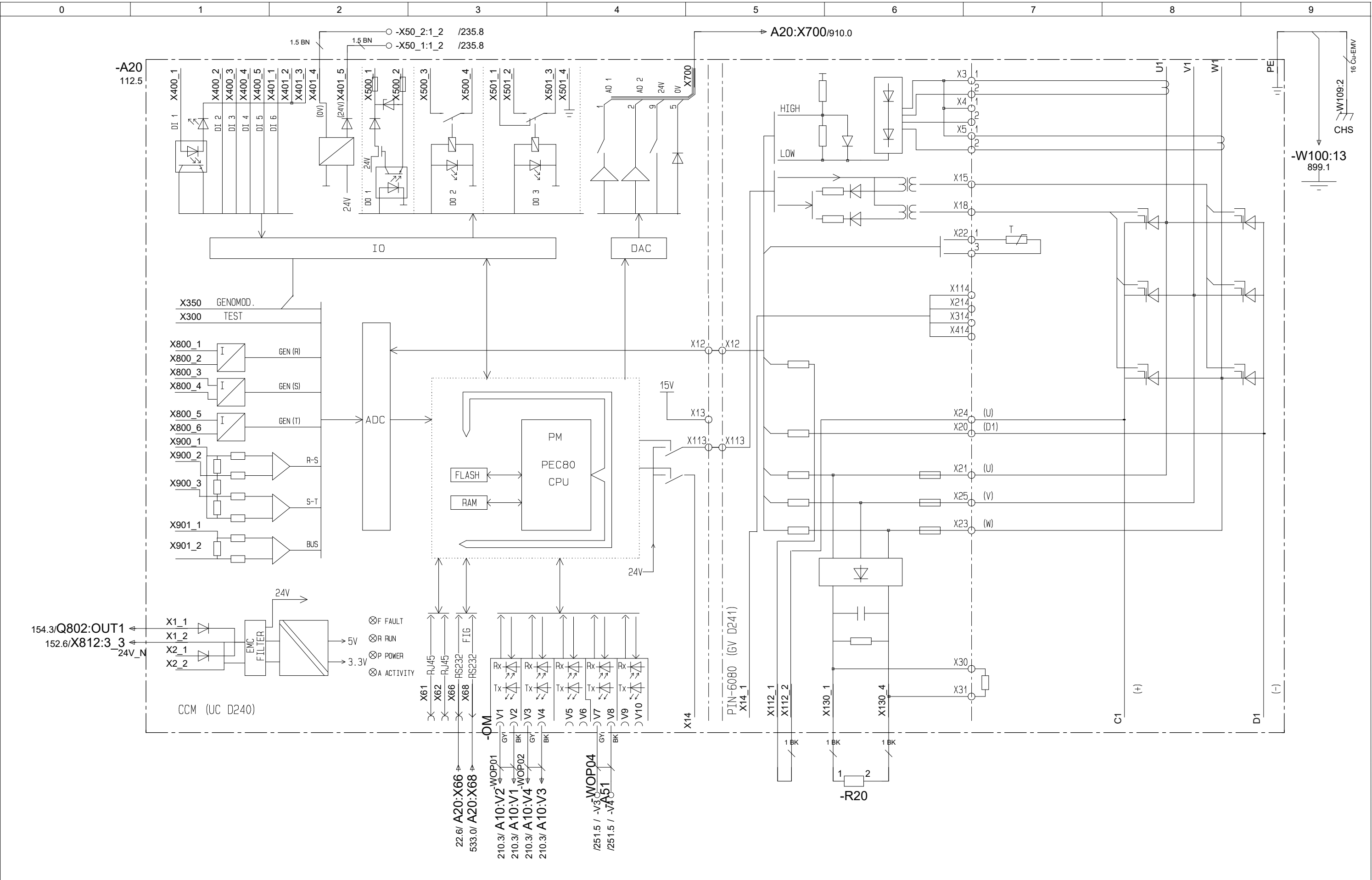


			Date	18.dub.2018	VILNIUS BIOMASS LITHUANIA STG 93.176MVA				INTERNAL POWER SUPPLY	Drawing No. INET/171551/c		6066-7DS-200_B	
			Name	ZIZ								145	< >
			Check.							Group	Product	Part	Page
Revision	Date	Name	Job No	17905/BS	Subst. c	Orig.	New		= V20CGA10	+ER		from	910

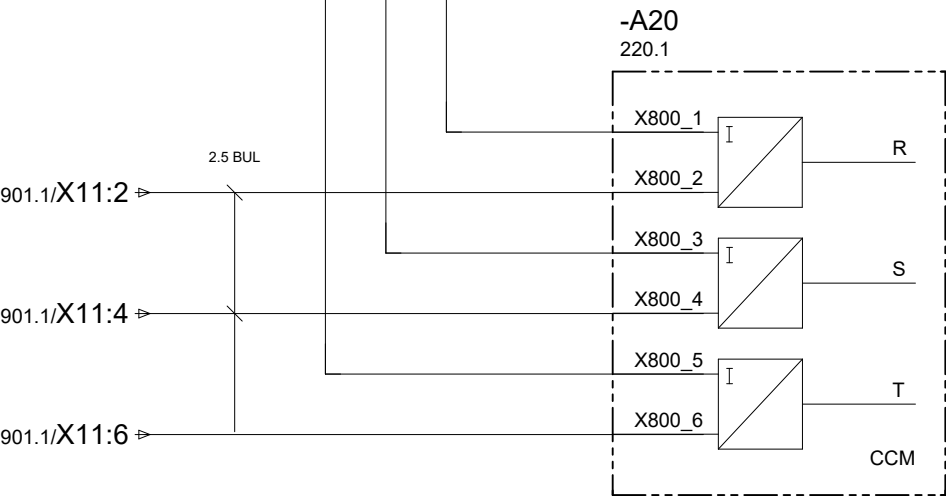
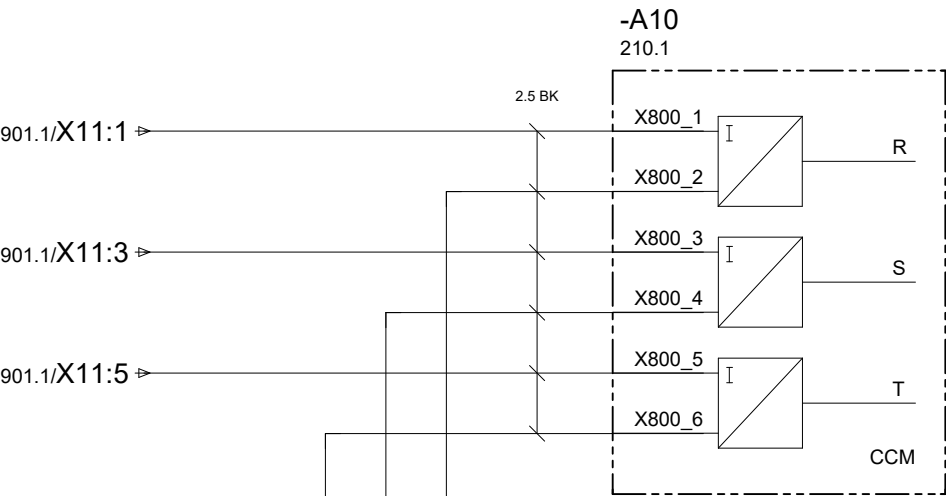
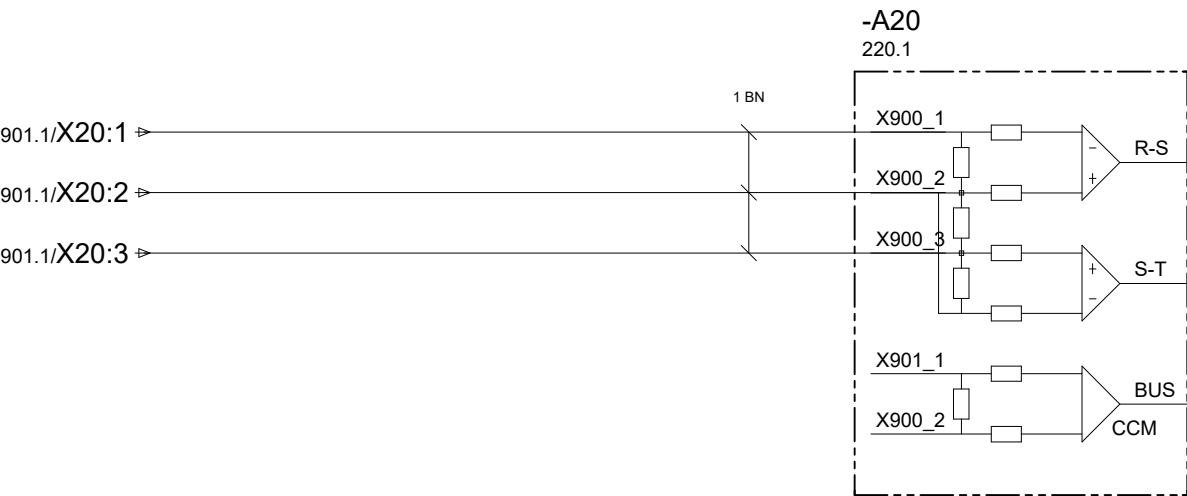
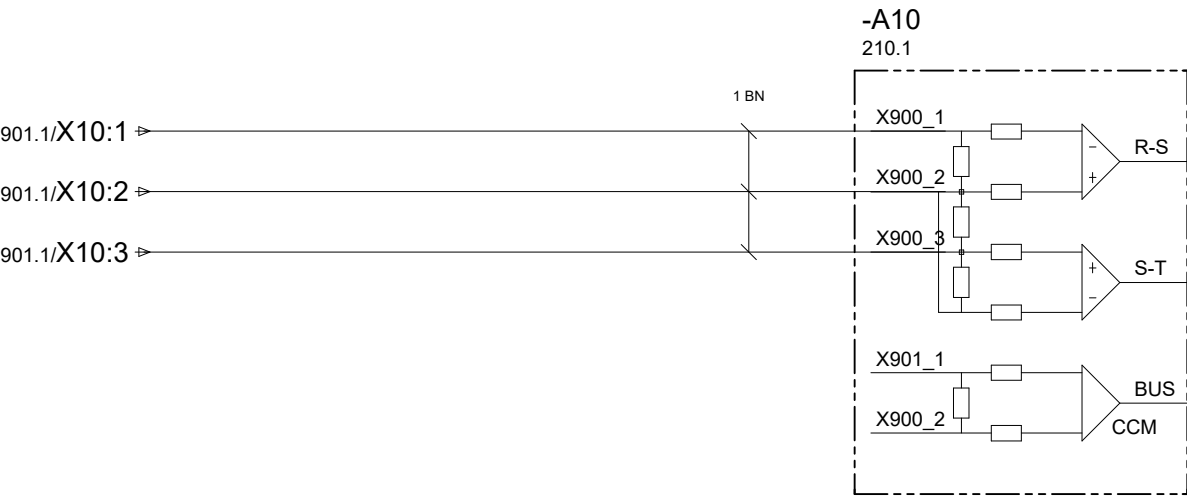
POWER SUPPLY DC/DC

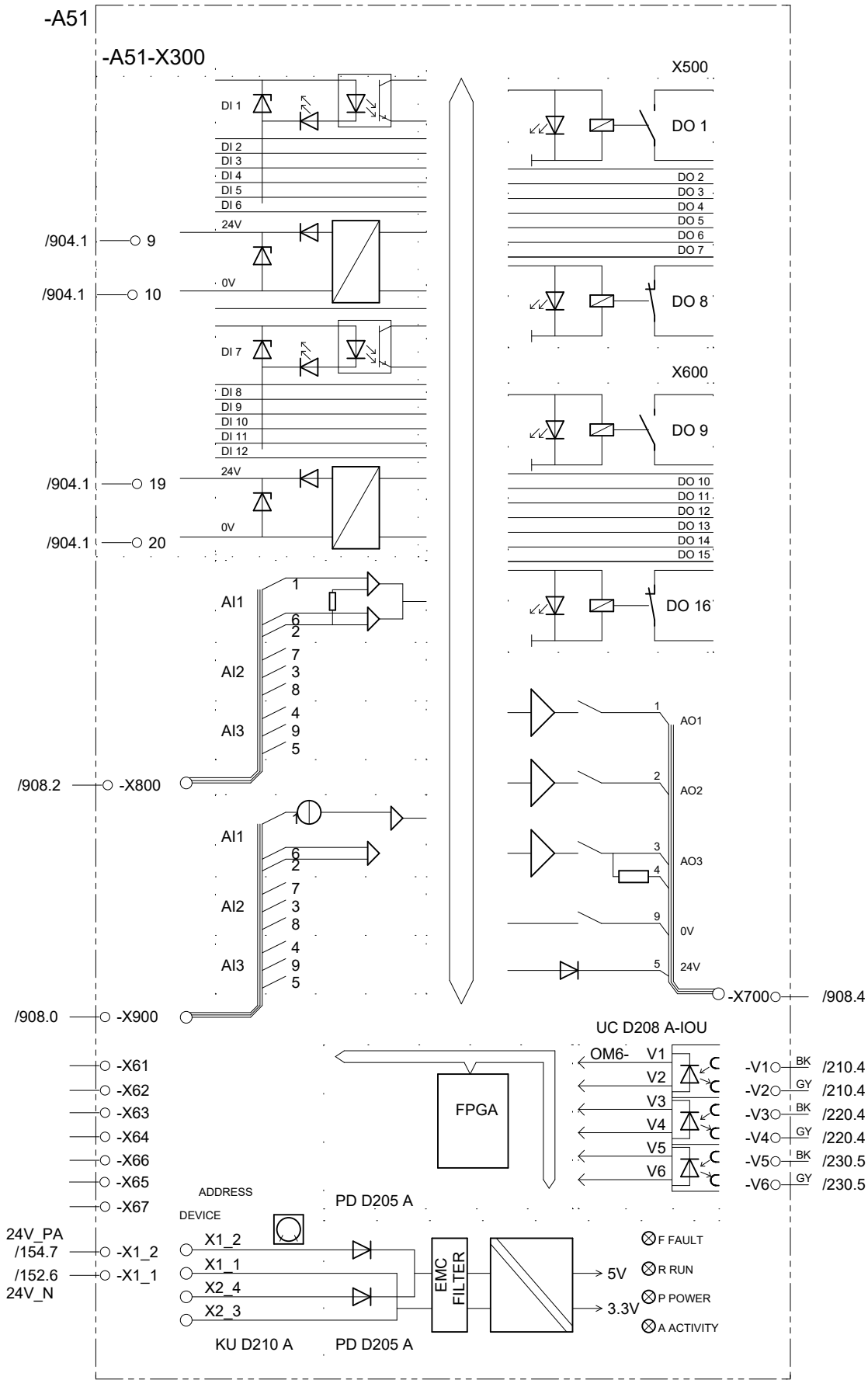




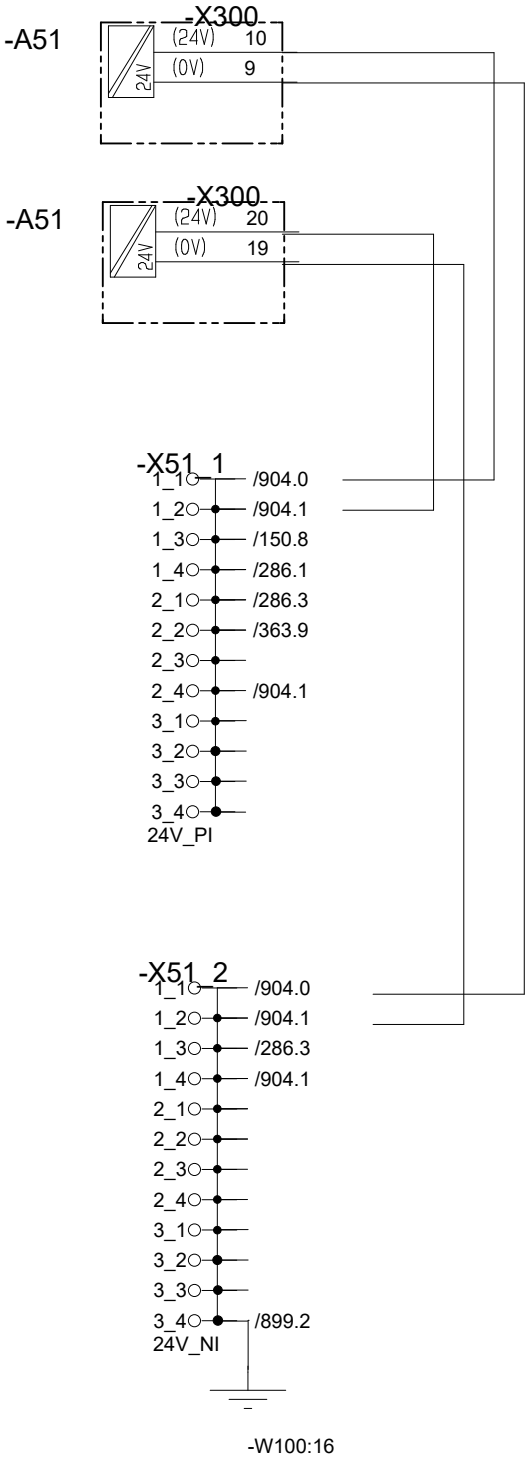


				Date	18.dub.2018	VILNIUS BIOMASS LITHUANIA STG 93.176MVA		<i>invelt</i> elektro <i>s.r.o.</i>		CONTROL/CONVERTER 2		Drawing No. INET/171551/c		6066-7DS-200_B	
				Name	ZIZ							210 < > 230			
				Check.								Group		Product = V20CGA10	
Revision	Date	Name	Job No	17905/BS	Subst. c	Orig.	New					Part +ER		Page 220	from 910

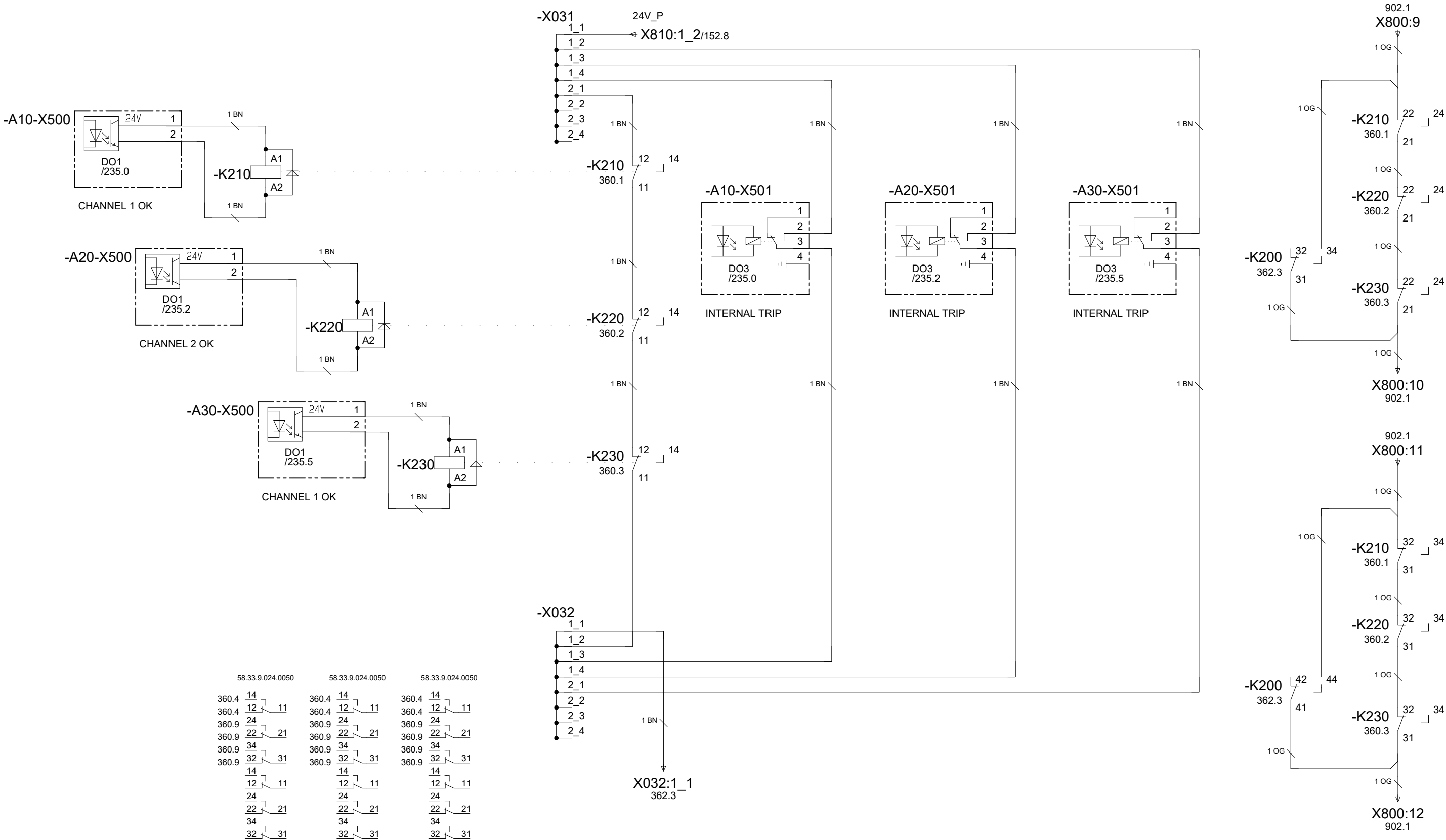




No.	SHEET	DESCRIPTION
-A51-X300		
1	DI1	/904.2 EXCITATION ON CMD
2	DI2	/904.2 AUTO ON CMD
3	DI3	/904.2 MANUAL ON CMD
4	DI4	/904.2 SUPERIMPOSED CONTROL ON CMD
5	DI5	/904.2 SUPERIMPOSED CONTROL OFF CMD
6	DI6	/150.7 ERROR ICU(-V80)
7	G1_GND1	COM
8	G1_GND2	COM
9	G1_0V	0V
10	G1_24V	24V
11	DI7	/286.2 START-UP RELEASE
12	DI8	/286.0 AUXILIARIES O.K.
13	DI9	/904.2 CB PMG
14	DI10	/904.2 GCB CLOSED
15	DI11	/904.2 SPARE
16	DI12	/363.8 FCB CLOSED
17	G2_GND1	COM
18	G2_GND2	COM
19	G2_0V	0V
20	G2_24V	24V
-A51-X500		
1,2	DO1	/905.0 AUTO-MANUAL TRANSFER READY
3,4	DO2	/905.1 LOCAL CONTROL
5,6	DO3	/905.1 SETPOINT MAX
7,8	DO4	/905.1 SETPOINT MIN
9,10	DO5	/905.2 AUTO ON
11,12	DO6	/905.2 MAN ON
13,14	DO7	/905.3 EXCITATION ON
15,16	DO8	/145.8 EXCITATION OFF
-A51-X600		
1,2	DO9	/365.8 FCB ON COMMAND
3,4	DO10	/362.2 FCB OFF COMMAND
5,6	DO11	/905.3 SPARE
7,8	DO12	/905.4 SPARE
9,10	DO13	/905.4 SPARE
11,12	DO14	/905.5 SPARE
13,14	DO15	/905.5 SUPERIMPOSED CONTROL ON
15,16	DO16	/905.5 COMMON ALARM

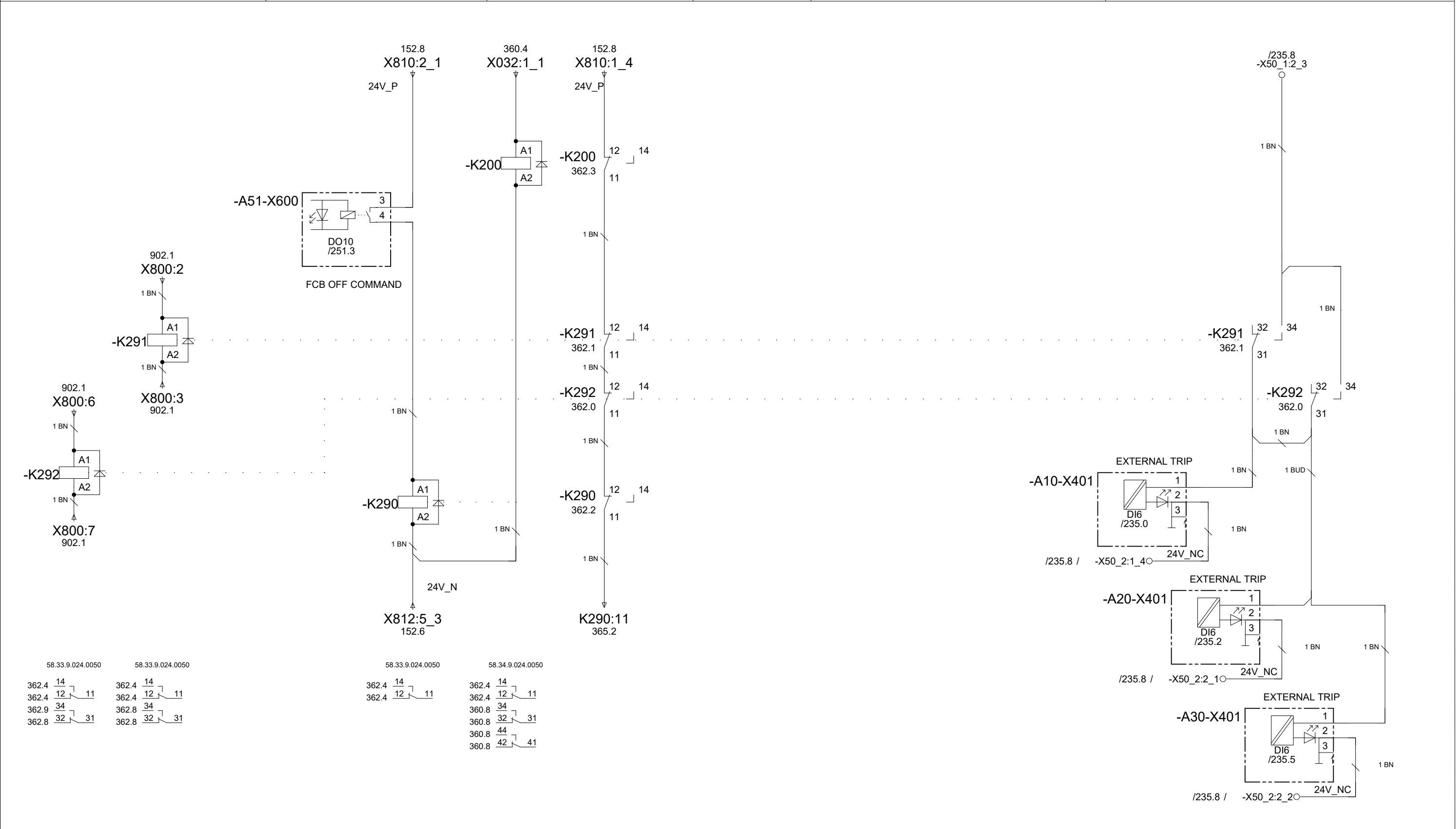


0	1	2	3	4	5	6	7	8	9	
CHANNEL 1 OK			INTERNAL TRIPS						TRIP SIGNALIZATION INTERNAL TRIPS	
CHANNEL 2 OK			CHANNEL 1		CHANNEL 2		CHANNEL 3			
CHANNEL 3 OK										



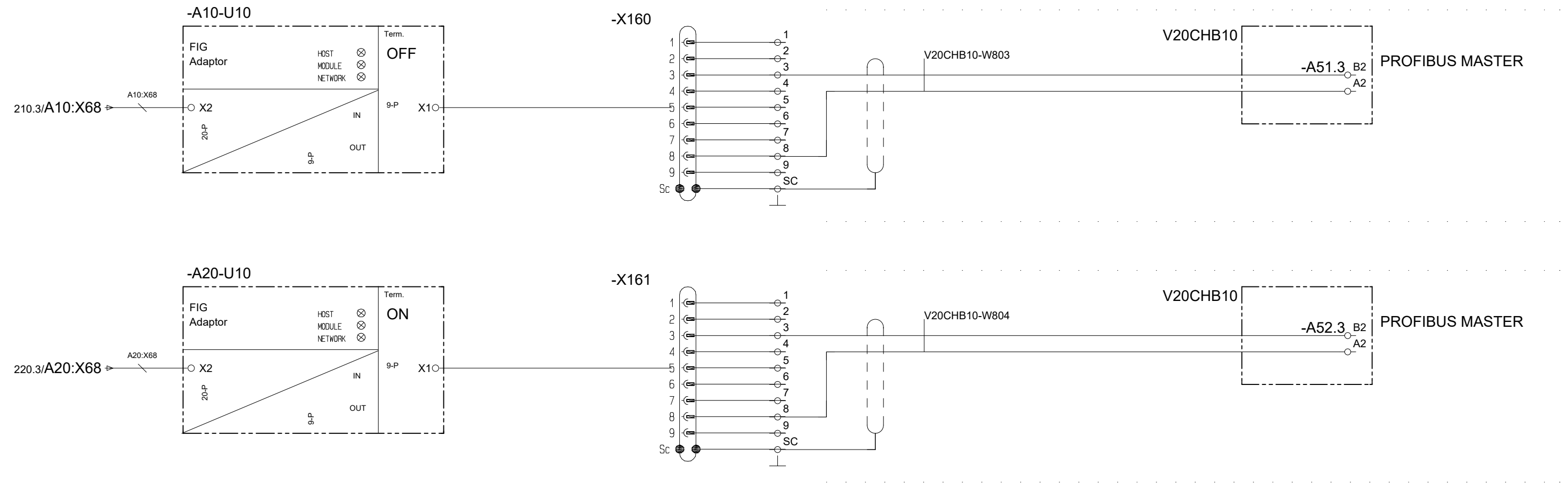
			Date	18.dub.2018	VILNIUS BIOMASS LITHUANIA STG 93.176MVA			<i>invelt</i> elektro <i>s.r.o.</i>		TRIP CIRCUIT			Drawing No. INET/171551/c		6066-7DS-200_B	
			Name	ZIZ									286 < > 362			
			Check.										Group	Product = V20CGA10	Part +ER	Page 360
Revision	Date	Name	Job No	17905/BS	Subst. c	Orig.	New							from 910		

0	1	2	3	4	5	6	7	8	9
EXTERNAL TRIP 1 (-K291)		FIELD BREAKER OFF COMMAND	TRIP CIRCUIT					TRIP SIGNALIZATION EXTERNAL TRIPS	
EXTERNAL TRIP 2 (-K292)									



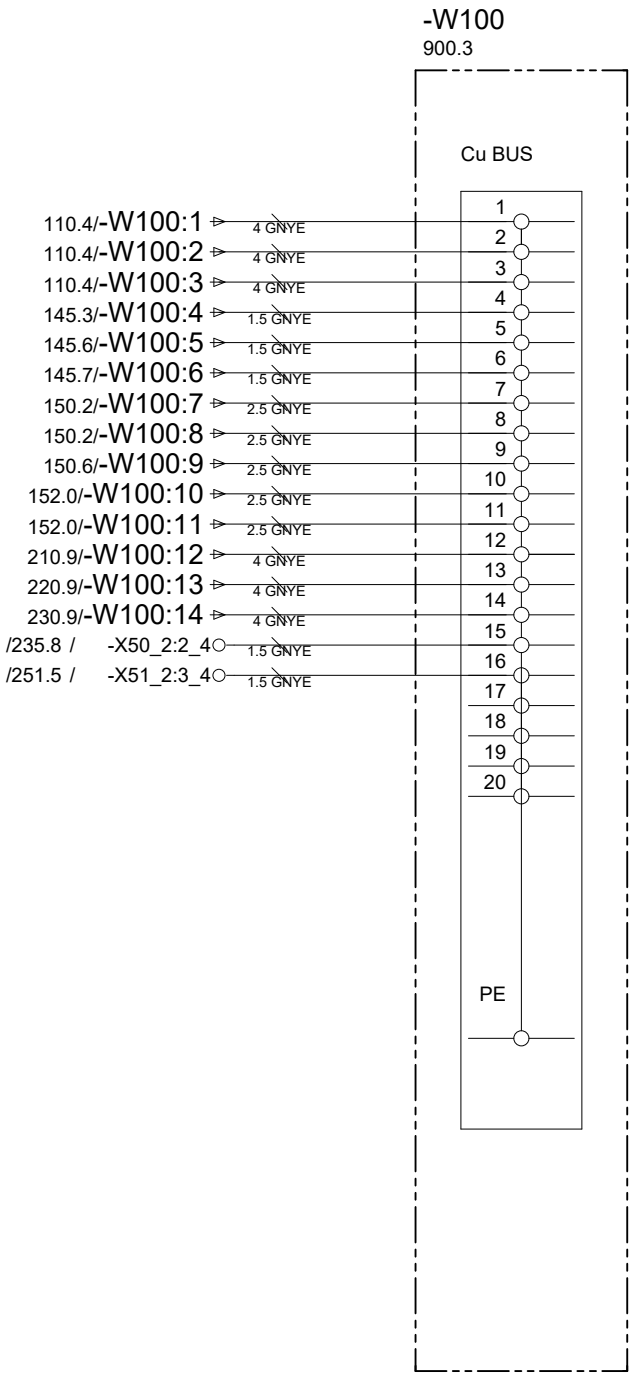
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			Name	ZIZ						360 < > 363			
			Check.							Page 362			
Revision	Date	Name	Job No	17905/BS	Subst. c	Orig.	New			Group	Product = V20CGA10	Part +ER	from 910

0	1	2	3	4	5	6	7	8	9
PROFIBUS ADAPTOR FIG MODULE									MASTER DEVICE



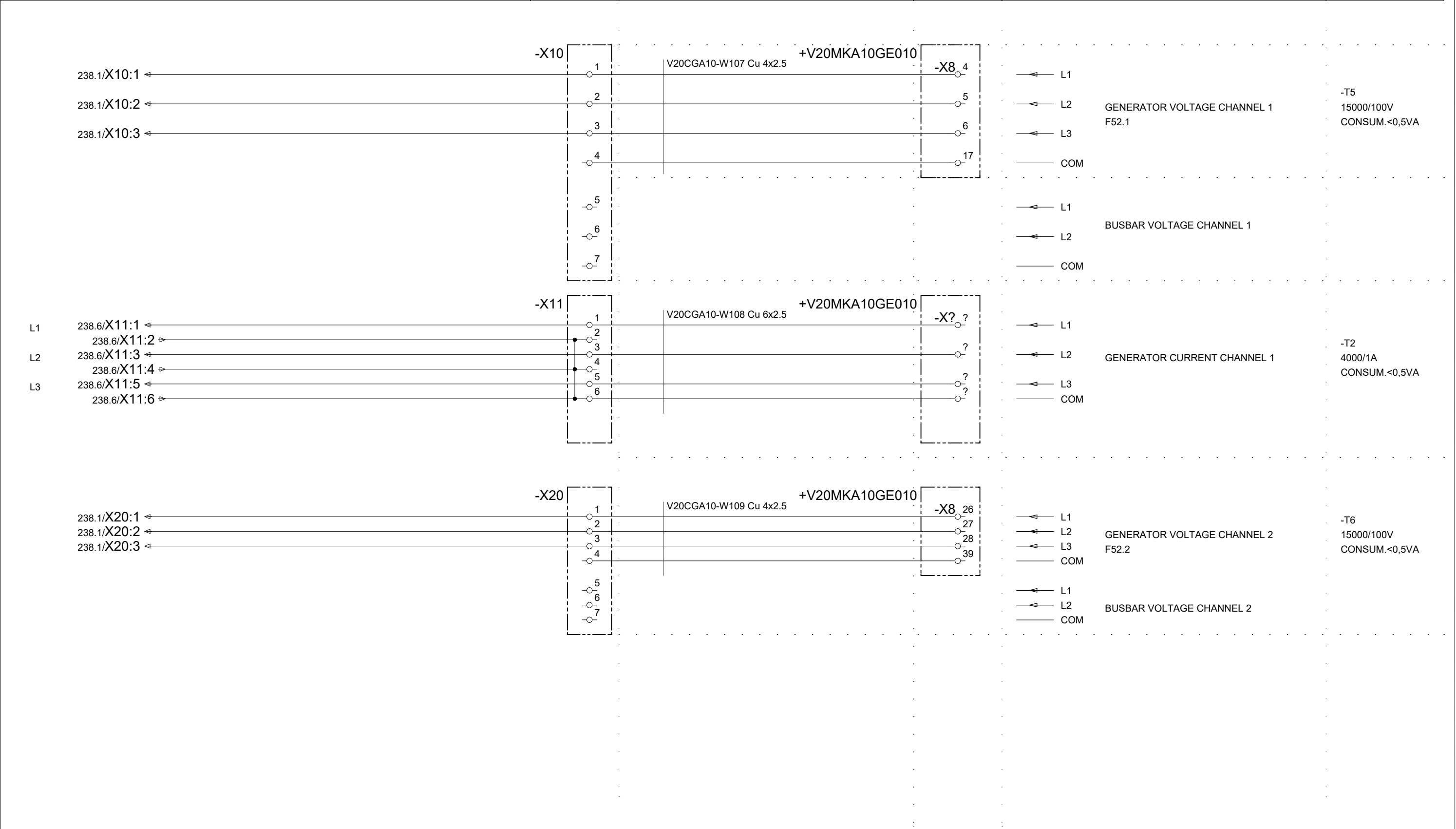
-X160=PROFIBUS
-X161=PROFIBUS

			Date	18.dub.2018	VILNIUS BIOMASS LITHUANIA STG 93.176MVA			<i>invelt</i> elektro s.r.o.		FIELD BUS COMMUNICATION			Drawing No. INET/171551/c		6066-7DS-200_B	
			Name	ZIZ									365 < > 899			
			Check.										Group	Product	Part	Page
Revision	Date	Name	Job No	17905/BS	Subst. c	Orig.	New								from	910

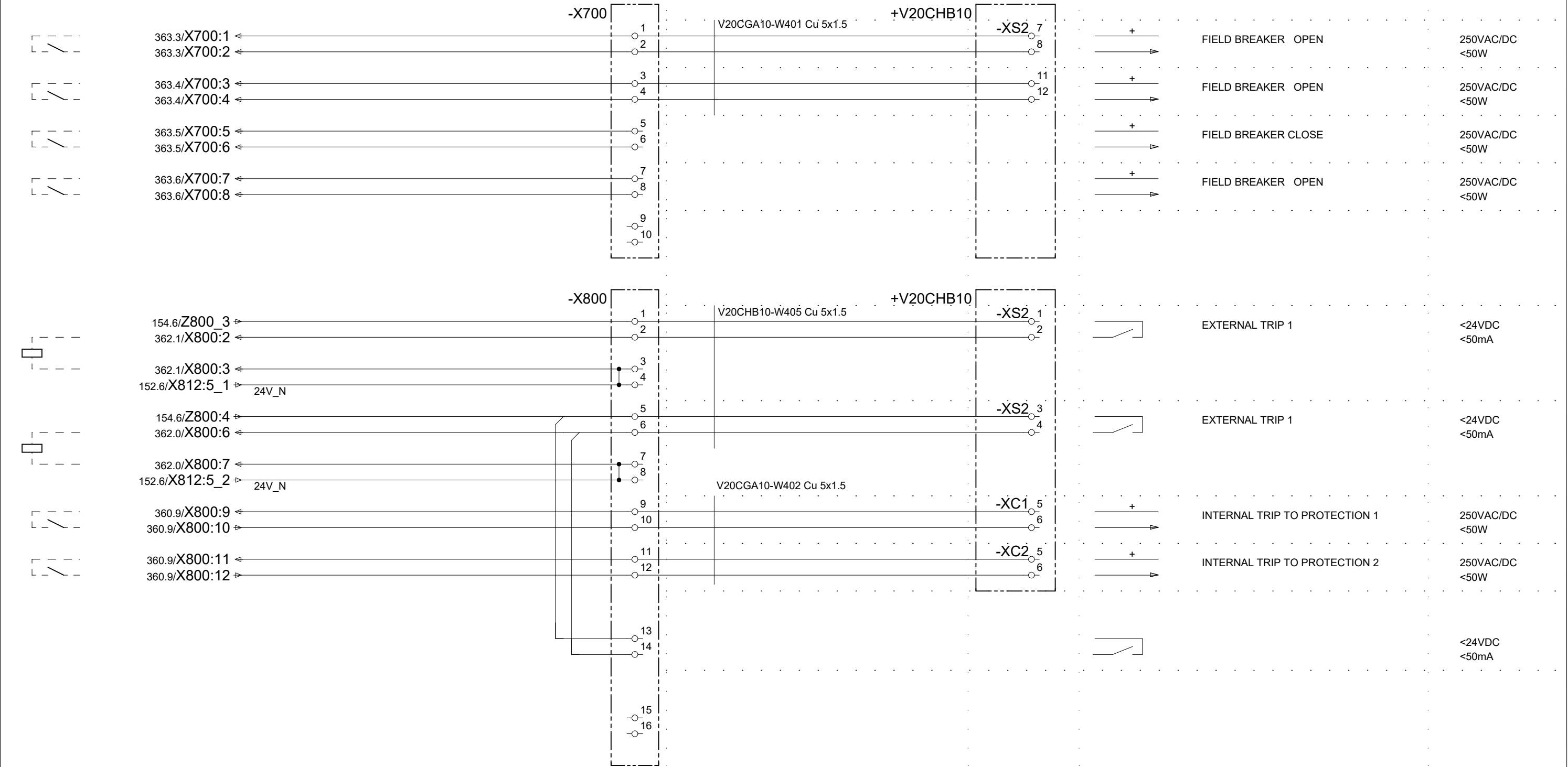


0	1	2	3		4	5	6		7	8	9
INTERNAL				TERMINALS		CABLES		AMBIENT	SIGNAL DESCRIPTION		DATA
<div><div>+ER-W100 899.1</div><div>PE</div><div>V20CGA10-W501 Cu 1x16 GNYE CONNECTION WITH CENTRAL GROUDING SYSTEM</div><div>CUBICLE GROUNDING</div><div>MIN 16mm2 CABLE PE</div><div>TO CENTR. GND</div><div>-X01</div><div>1</div><div>V20CGA10-W101 Cu 3x6</div><div>+V20MKC10GE010</div><div>-X4 1</div><div>L1</div><div>MAIN SUPPLY FROM PMG</div><div>NOMINAL VOLTAGE</div><div>3x250V,150Hz</div><div>NOMINAL CURRENT</div><div>6A</div><div>FUSED 20A</div><div>110.1/X01:1</div><div>2</div><div>3</div><div>5</div><div>L2</div><div>L3</div><div>110.1/X01:2</div><div>110.1/X01:3</div><div>-X02</div><div>1</div><div>V20CGA10-W102 Cu 3x6</div><div>-X4 2</div><div>L1</div><div>MAIN SUPPLY FROM PMG</div><div>NOMINAL VOLTAGE</div><div>3x250V,150Hz</div><div>NOMINAL CURRENT</div><div>6A</div><div>FUSED 20A</div><div>110.1/X02:1</div><div>2</div><div>3</div><div>4</div><div>6</div><div>L2</div><div>L3</div><div>110.1/X02:2</div><div>110.1/X02:3</div><div>-X03</div><div>1</div><div>V20CGA10-W103 Cu 5x6</div><div>+V20BJA10</div><div>-X? 1</div><div>L1</div><div>AC AUX.POWER SUPPLY #1</div><div>NOMINAL VOLTAGE</div><div>3x400V,50Hz</div><div>NOMINAL CURRENT</div><div>FUSED 16A</div><div>110.1/X03:1_1</div><div>150.0/X03:1_2</div><div>110.1/X03:2_1</div><div>150.0/X03:2_2</div><div>110.1/X03:3</div><div>2</div><div>3</div><div>N</div><div>PE</div><div>2</div><div>3</div><div>N</div><div>PE</div><div>L2</div><div>L3</div><div>120.8/X05:1_2</div><div>120.8/X05:1</div><div>120.8/X05:2</div><div>120.8/X05:2_2</div><div>-X05</div><div>1</div><div>V20CGA10-W104 Cu 3x6</div><div>+V20MKC10GE010</div><div>-X4 1</div><div>+</div><div>NOMINAL OUTPUT VOLTAGE</div><div>66V</div><div>NOMINAL OUTPUT CURRENT</div><div>13A</div><div>120.8/X05:2</div><div>120.8/X05:2_2</div><div>-X80</div><div>1</div><div>V20CGA10-W105 Cu 3x10</div><div>+V20BUA10</div><div>-X? +</div><div>+</div><div>BATTERY #1</div><div>220V</div><div>DC/IT</div><div>FUSED 16A</div><div>150.0/X80:1</div><div>150.0/X80:2</div><div>-X90</div><div>1</div><div>V20CGA10-W106 Cu 3x10</div><div>+V20BJA10</div><div>-X? 1</div><div>L1</div><div>AC AUX.POWER SUPPLY #2</div><div>1x230V</div><div>50Hz</div><div>FUSED 16A</div><div>145.0/X90:1_1</div><div>2</div><div>3</div><div>N</div><div>PE</div><div>2</div><div>3</div><div>N</div><div>PE</div><div>L2</div><div>L3</div><div>N</div><div>PE</div><div>145.0/X90:4</div></div>											
<div><div>+ER-W100=CENTRAL GND</div><div>-X01=EXCITATION MAIN SUPPLY</div><div>-X02=EXCITATION MAIN SUPPLY</div><div>-X03=EXCITATION MAIN SUPPLY</div><div>-X05=EXCITATION OUTPUT</div><div>-X80=DC AUX POWER SUPPLY1 (BAT1)</div><div>-X90=AC AUX POWER SUPPLY (1x220V, 50Hz)</div></div>											
				Date18.dub.2018		VILNIUS BIOMASS		LIST OF TERMINALS		Drawing No. INET/171551/c	
				NameZIZ		LITHUANIA STG 93.176MVA		invelt elektro s.r.o.		6066-7DS-200_B	
				Check.						899 < > 901	
Revision				Date	Name	Job No17905/BS	Subst. c	Orig.	New	GroupProductPartPage900	
										= V20CGA10+ERfrom910	

0	1	2	3	4	5	6	7	8	9	
INTERNAL				TERMINALS	CABLES		AMBIENT	SIGNAL DESCRIPTION		DATA

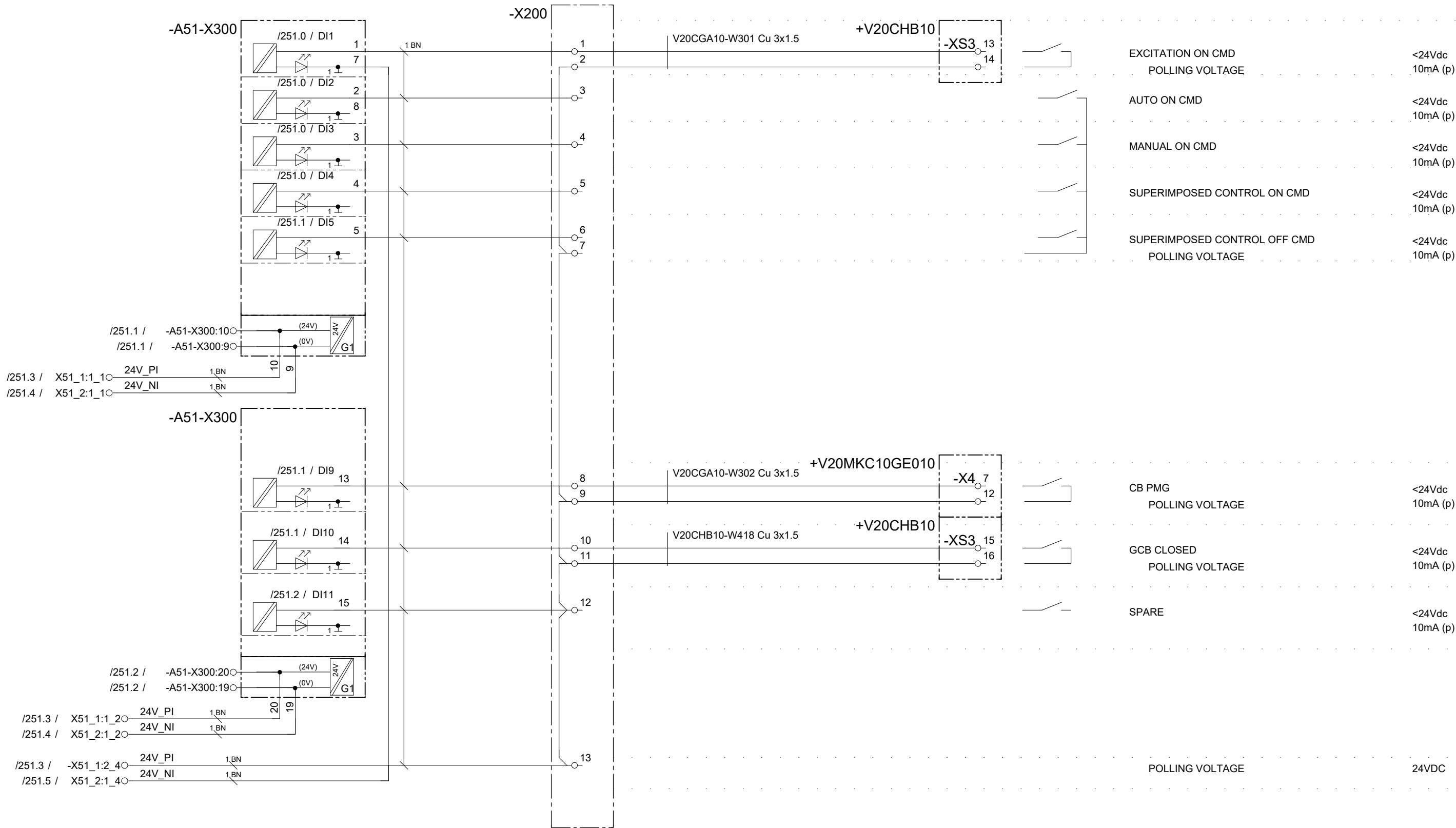


0	1	2	3	4	5	6	7	8	9
INTERNAL				TERMINALS	CABLES	AMBIENT	SIGNAL DESCRIPTION		DATA



			Date	18.dub.2018	VILNIUS BIOMASS LITHUANIA STG 93.176MVA			LIST OF TERMINALS DI/DO CCM	Drawing No. INET/171551/c		6066-7DS-200_B	
			Name	ZIZ					902	< >	904	
			Check.									
Revision	Date	Name	Job No	17905/BS	Subst. c	Orig.	New		Group	Product = V20CGA10	Part +ER	Page 903 from 910

0	1	2	3	4	5	6	7	8	9
INTERNAL			TERMINALS	CABLES		AMBIENT	SIGNAL DESCRIPTION		DATA



-X210=DO FROM UNIT CIO

* RESISTIVE LOAD OR INDUCTIVE LOAD WITH SUPPRESSION ELEMENT

VILNIUS BIOMASS
LITHUANIA STG 93.176MVA



LIST OF TERMINALS
DO CIO

INET/171551/c

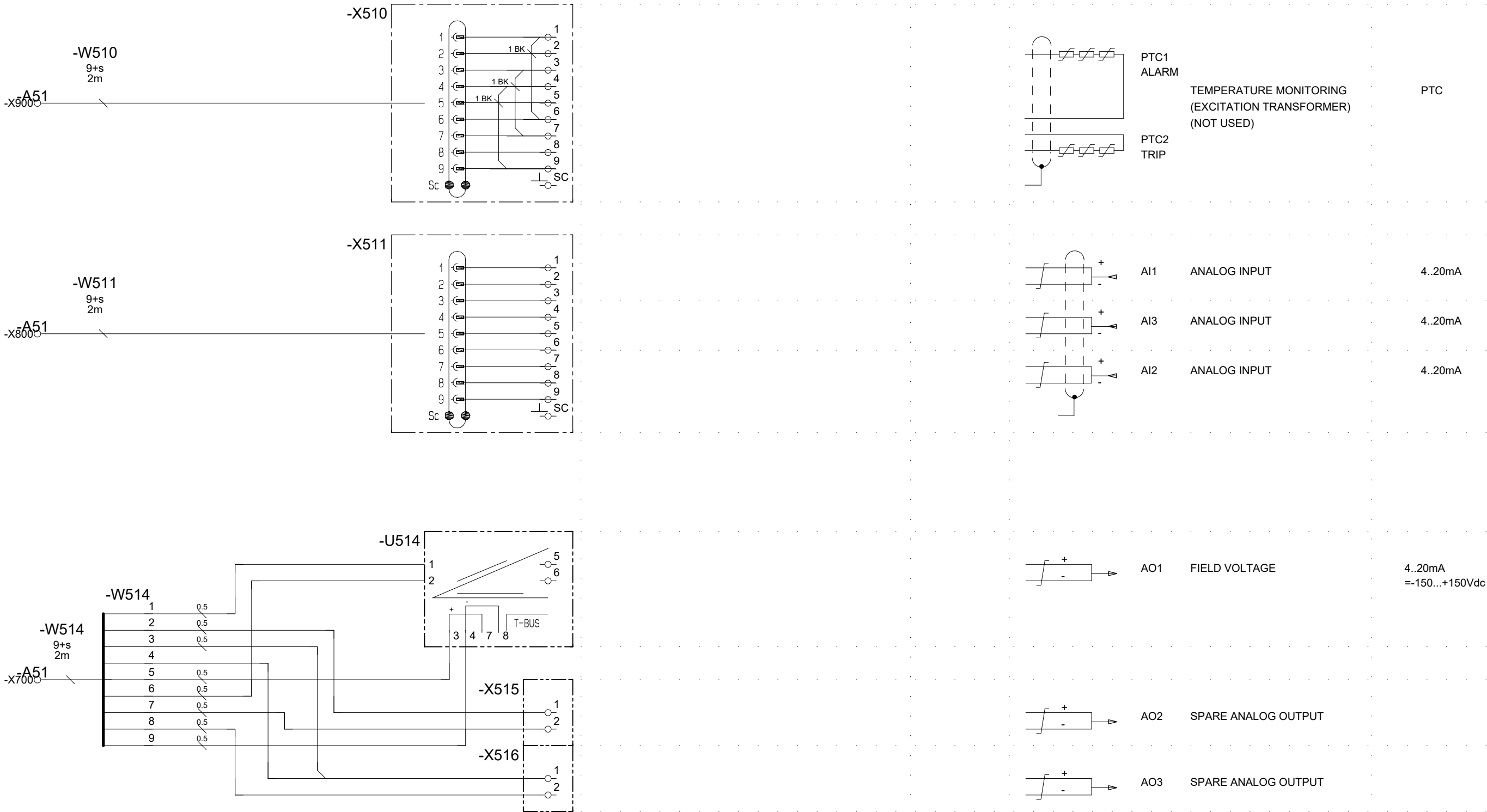
6066-7DS-200_B

904 < > 908

Product	Part
= V20CGA10	+ER

Page	905
from	910

0	1	2	3	4	5	6	7	8	9
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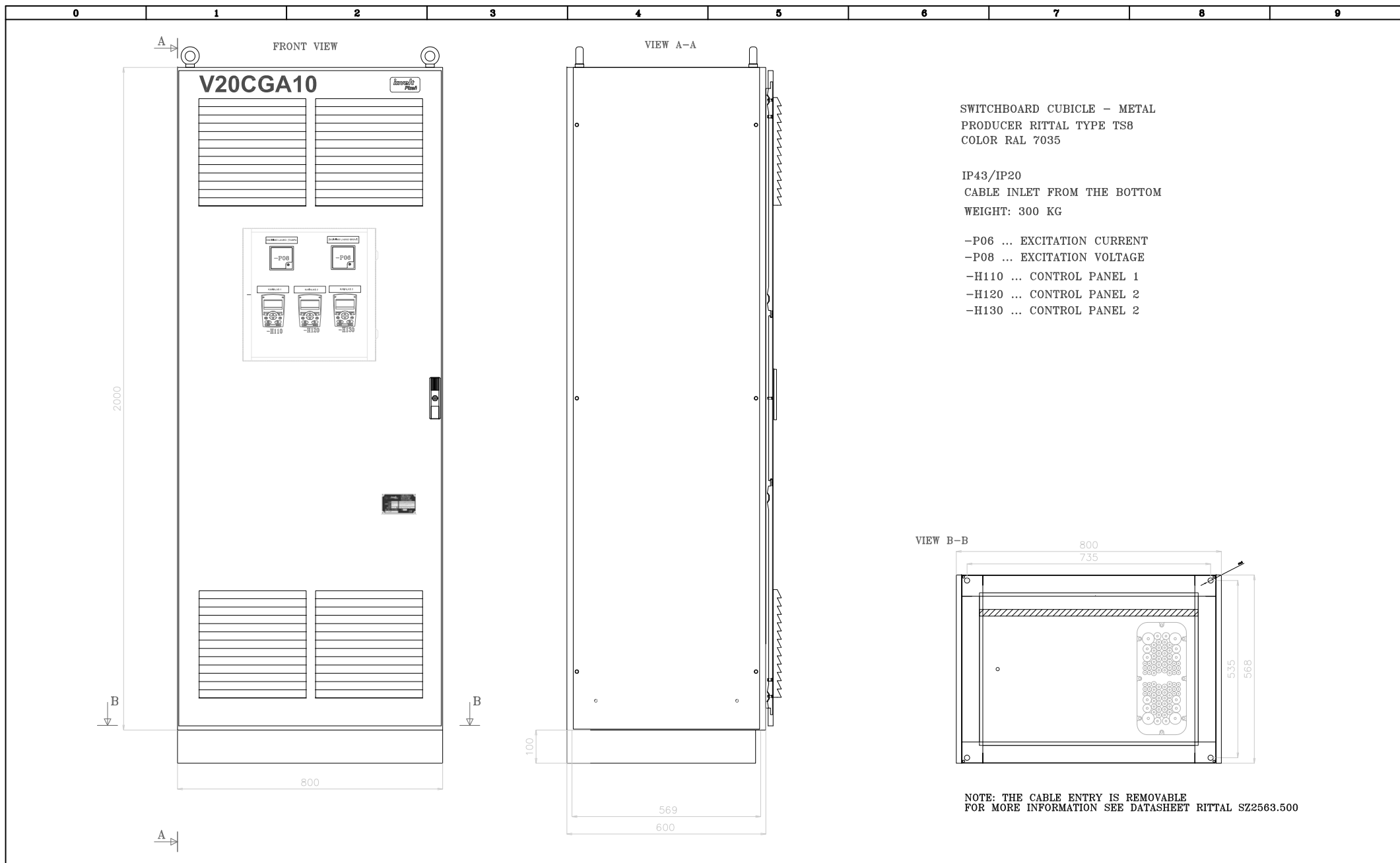
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SWITCHBOARD CUBICLE - METAL
PRODUCER RITTAL TYPE TS8
COLOR RAL 7035

IP43/IP20
CABLE INLET FROM THE BOTTOM
WEIGHT: 300 KG

-P06 ... EXCITATION CURRENT
-P08 ... EXCITATION VOLTAGE
-H110 ... CONTROL PANEL 1
-H120 ... CONTROL PANEL 2
-H130 ... CONTROL PANEL 2

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