



# Blastrac bv

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Project description	BMS-150E ELECT. BOX 1X230V MKI
Drawing number	PJ19.1327.09
Blastrac number	E13999

Power supply	230V 50/60Hz SPH
Input lead	Input lead
Control Voltage	24Vdc

Year of Manufacturing	2019
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Remarks	As Built
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Created on	23-7-2019	by	HvdB
Edit date	30-9-2022	by	HVDB

Number of pages 48

			Date	27-5-2020	Project name:	BMS-150E		Page description:		Customer:	Blastrac bv.	= E1	
			Ed.	HVDB		ELECT. BOX 1X230V MKI			Title page / Coversheet			+	
			Appr	--		E13999					Drawing number:	PJ19.1327.09	Page
Modification	Date	Name	Last print	30-9-2022									

# Table of contents

Page	Page description	Revision	Date	Edited by
=E1/1	Title page / Coversheet		27.05.20	HvdB
=E1/1.a	Checklist		27.05.20	HvdB
=E1/2.a	Table of contents		12-4-2022	HvdB
=E1/2.b	Table of contents		12-4-2022	HvdB
=E1/3	Revision sheet		28.04.21	HvdB
=E1/4	Legend		27.05.20	HvdB
=E1/5	Symbol library		27.05.20	HvdB
=E1/6	Cable diagram		28.04.21	HvdB
=E1/8	Mounting plate		12.04.22	HvdB
=E1/9	Cable set		20.04.21	HvdB
=E1/9a	Cable set		10.11.20	HvdB
=E1/9b	Cable set		13.01.21	HvdB
=E1/9c	Cable set		22.10.20	HvdB
=E1/10	Main Current		12.04.22	HvdB
=E1/11	Control Current		04.04.22	HvdB
=E1/12	Control Current		21.06.21	HvdB
=E1/13	Control Current		14.04.21	HvdB
=E1/15	Control Current		15.04.21	HvdB
=E1/18	Controls console Right side		21.06.21	HvdB
=E1/19	Controls console Left side		14.04.21	HvdB
=E1/20	Controls Dual lift		14.04.21	HvdB
=E1/21	Terminal Diagram =E1+-V		03.07.20	HvdB
=E1/22	Terminal Diagram =E1+-0V		15.09.20	HvdB
=E1/23	Terminal Diagram =E1+-X1		14.04.21	HvdB
=E1/24	Terminal Diagram =E1+-X2		14.04.21	HvdB
=E1/25	Terminal Diagram =E1+-X3		14.04.21	HvdB
=E1/26	Terminal Diagram =E1+-X4		14.04.21	HvdB
=E1/27	Terminal Diagram =E1+-X5		12.04.22	HvdB
=E1/28	Terminal Diagram =E1+-X6		14.04.21	HvdB
=E1/29	Terminal line-up =E1+-V		03.07.20	HvdB
=E1/30	Terminal line-up =E1+-0V		03.07.20	HvdB
=E1/31	Terminal line-up =E1+-X1		14.04.21	HvdB
=E1/32	Terminal line-up =E1+-X2		03.07.20	HvdB

1.a

2.b

		Date	12-4-2022	Project name: <b>BMS-150E</b> <b>ELECT. BOX 1X230V MKI</b> <b>E13999</b>		Page description: <b>Table of contents</b>	Customer: <b>Blastrac bv.</b>		= E1
		Ed.	HVDB				Drawing number: <b>PJ19.1327.09</b>		+
Modification	Date	Name	Last print				30-9-2022		





# WIRE COLOR All wiring AWG

Main Voltage 400V

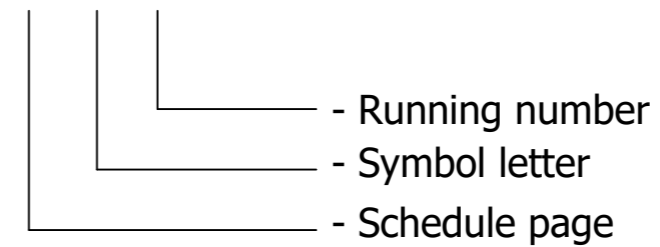
Phase	Colors
L1	- Black
L2	- Black
L3	- Black
Earth / PE	- Yellow/Green

Control Voltage

Plus (24VDC)	- Dark Blue
Hook-up wire	- Dark Blue
Minus / Ground (24VDC)	- White Blue

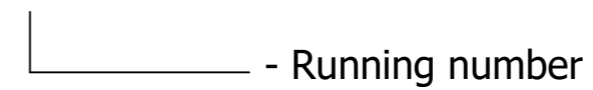
# SYMBOL CODE

11 F 11



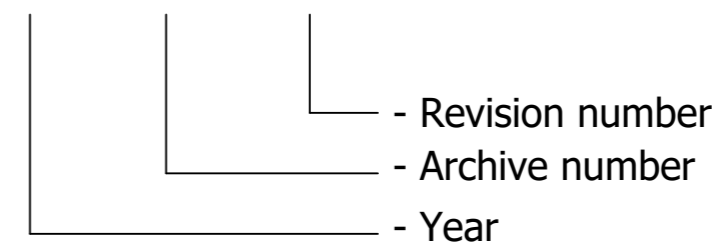
# CORE CODE

11 11

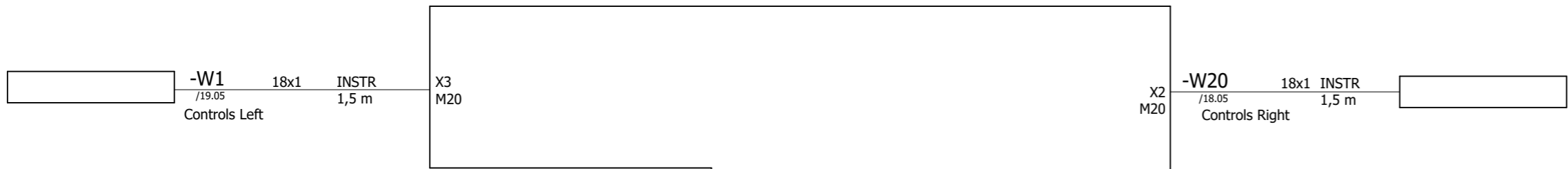


# DRAWING NUMBER

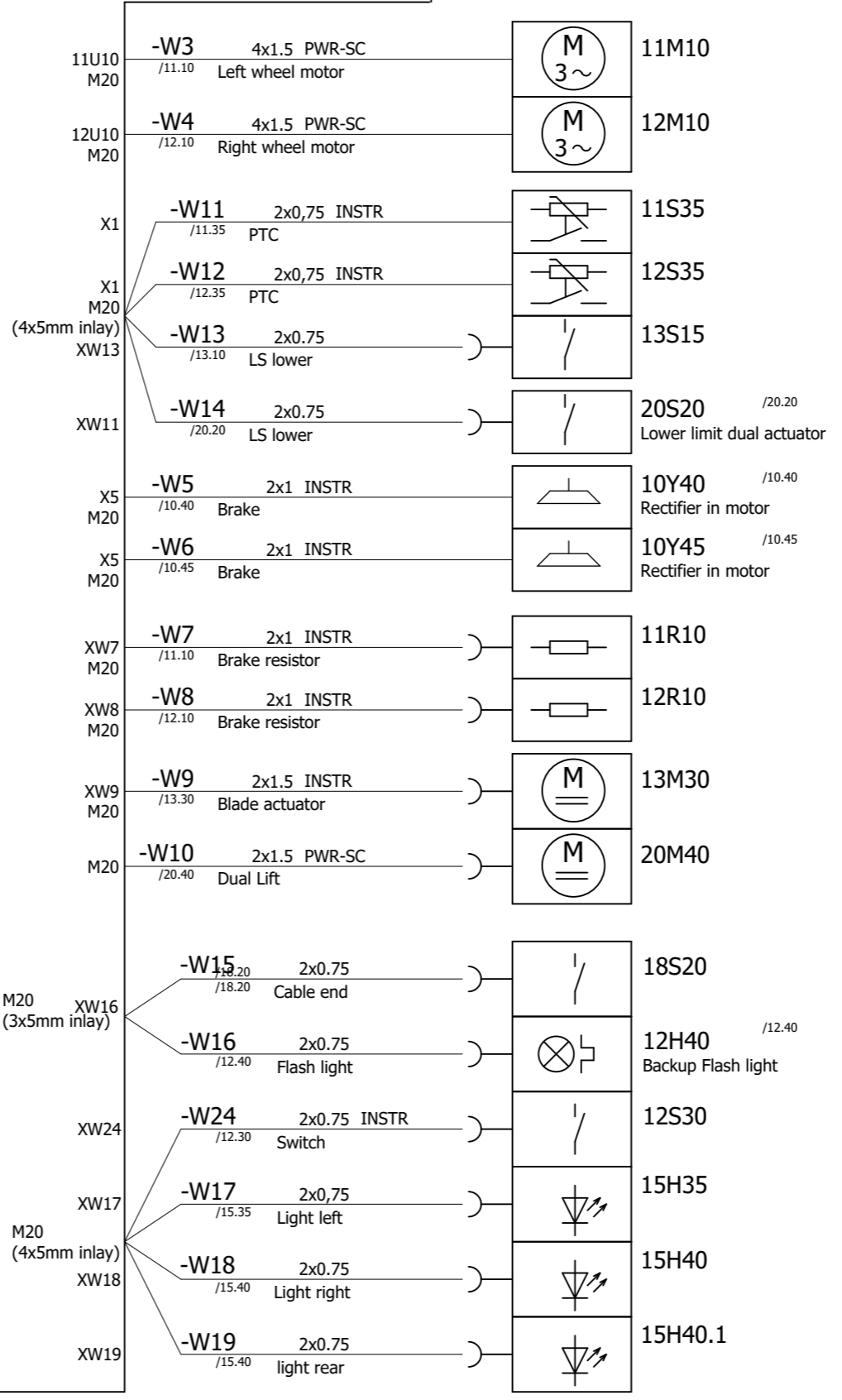
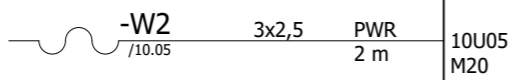
PJ##.####.##



	auxiliary contact	hulpcontact		signal light	signaallamp		Safety fuse	smeltveiligheid
	Power contact	vermogenscontact		horn	hoorn		Fused switch, three-pole	schakelbare scheid
	NO contact, opens with time delay	maakcontact, vertraagd open		amp. meter	amperemeter		Fused disconnect, three-pole	scheid "klapbak"
	NO contact, closes with time delay	maakcontact, vertraagd sluitend		running hour counter	urenteller		Main switch	hoofdschakelaar
	NC contact, opens with time delay	verbreekcontact, vertraagd open		transformer	transformator		Circuit breaker, single-pole	installatieautomaat 1-polig
	NC contact, closes with time delay	verbreekcontact, vertraagd sluitend		Contactor coil relay coil	spoel		Circuit breaker, two-pole	installatieautomaat 2-polig
	Pushbutton rebound	drukknop terugverend		Contactor/relay coil, with pick-up delay	Spoel met opkomvertraging		Circuit breaker, three-pole	installatieautomaat 3-polig
	Pushbutton locking	drukknop blijvend		Contactor/relay coil, with drop-out delay	spoel met afvalvertraging		Power circuit breaker motor overload switch with switch mechanism	motorbeveiligingsschakelaar
	Rotary switch rebound	tip draaischakelaar		Contactor pulse coil relay pulse coil,	spoel puls		Valve	elektrisch bediende klep
	Rotary switch locking	draaischakelaar		Tube light	TL verlichting		Resistor with movable contact	regelbare weerstand
	Emergency stop rotary unlock	noodstop met draaibare vrijgave		Resistor / Heating	weerstand verwarming		Terminal	rijgklem
	Thermostatic switch	thermostaat hygrostaat		Socket	wandcontactdoos		Terminal with fuse	rijgklem met zekering
	Pressure switch	drukschakelaar		Current transformer	stroomtransformator		Rectifier	gelijkrichter
	Limit switch	eindschakelaar						
	Proximity switch	naderingsschakelaar						



Supply  
230V 50/60Hz SPH  
Fuse Max.  
16A



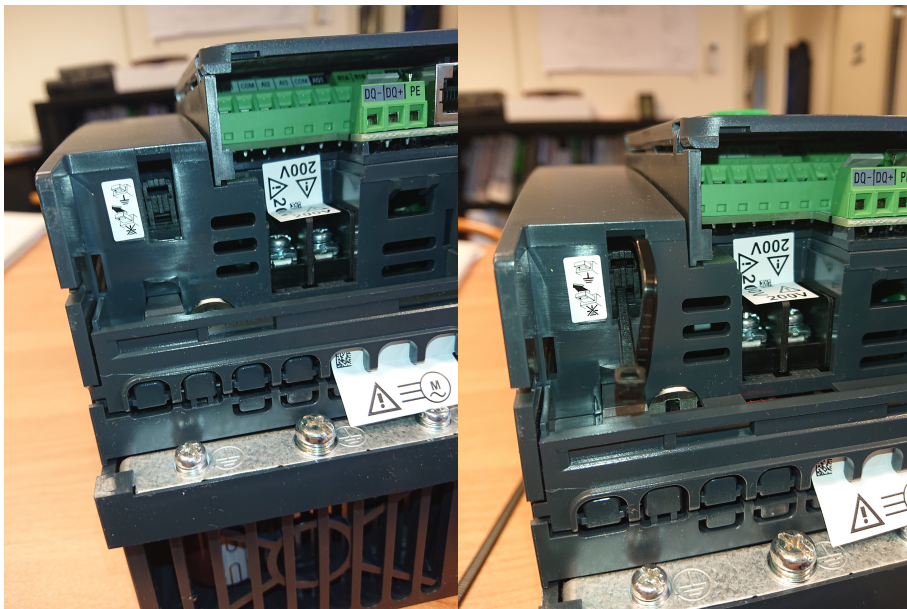
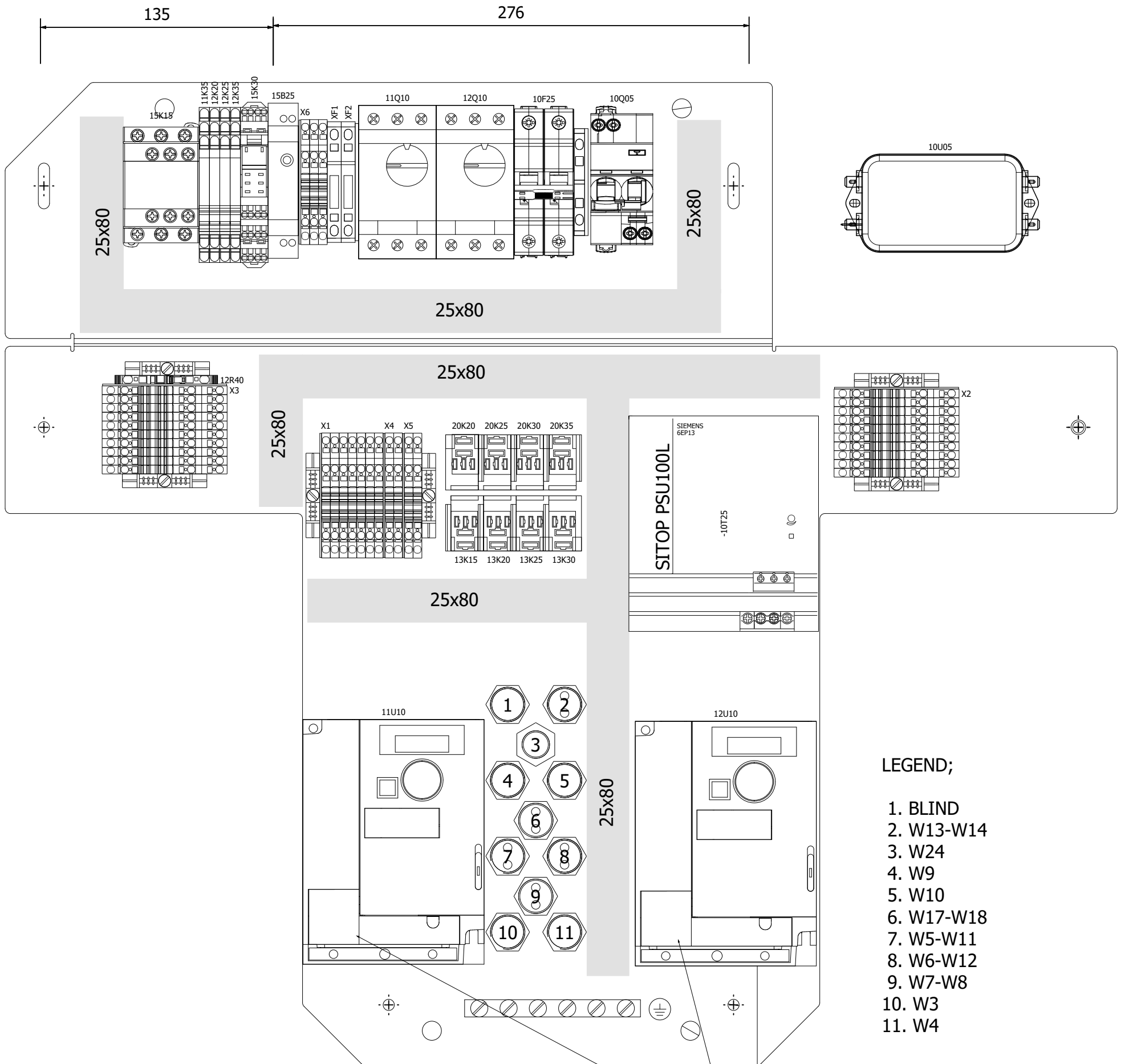
PWR = Power cable  
INSTR = Instrument cable  
SC = screened cable (screen is also PE)

The wire cross sections in this diagram are referring to a maximum length of 30m at an ambient temperature of 25°C they are only a recommendation, any change in length and ambient temperature will result in cable core size change.

			Date	28-4-2021	Project name: <b>BMS-150E</b> <b>ELECT. BOX 1X230V MKI</b> <b>E13999</b>		Page description: Cable diagram	Customer:	<b>Blastrac bv.</b>	= E1	
			Ed.	HvdB							+
			Appr	--						Drawing number:	<b>PJ19.1327.09</b>
Modification	Date	Name	Last print	30-9-2022						<b>6</b>	



8M0



Drive needs to be set into IT system setting

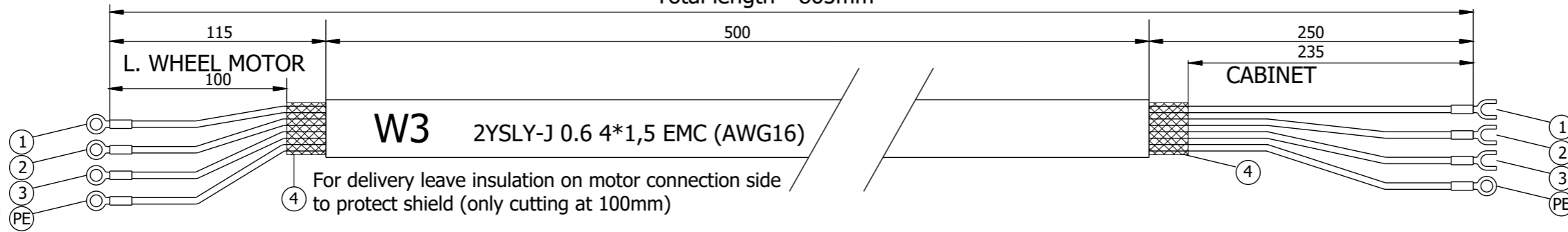
IT setting;  
 1. Remove the power terminal cover.  
 2. The switch is factory set to the  $\perp$  position.  
 3. to disconnect the built-in EMC filter position the filter in upper pos. to ✱  
 4. refit the cover.  
 5. secure it with a Ty-rap

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Total length = 865mm

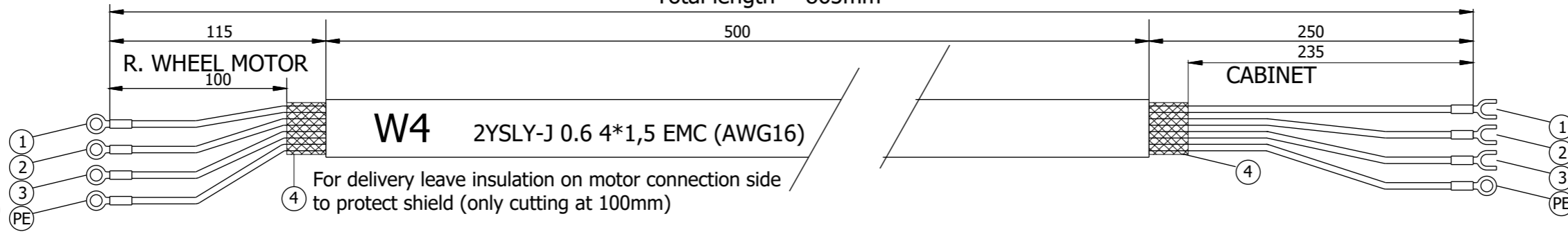
Legend:  
Eye cable tag  
Blue M4  
1 = U1  
2 = V1  
3 = W1  
PE (Green/Yellow)



Legend:  
Fork cable tag  
Red M4  
1 = U1  
2 = V1  
3 = W1  
Eye cable tag  
Red M4  
4 = Schield and is to be connected in the EMC cable gland  
PE= (Green/Yellow)

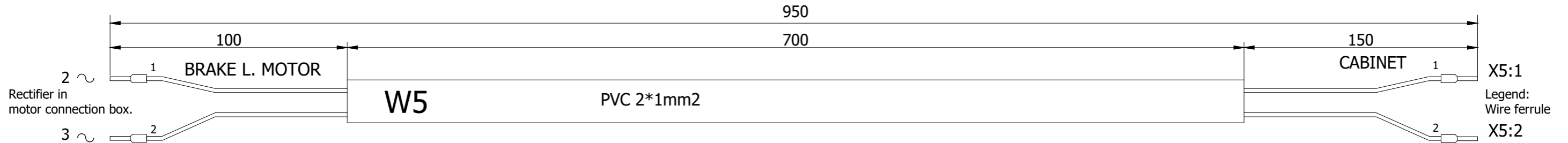
Total length = 865mm

Legend:  
Eye cable tag  
Blue M4  
1 = U1  
2 = V1  
3 = W1  
PE (Green/Yellow)



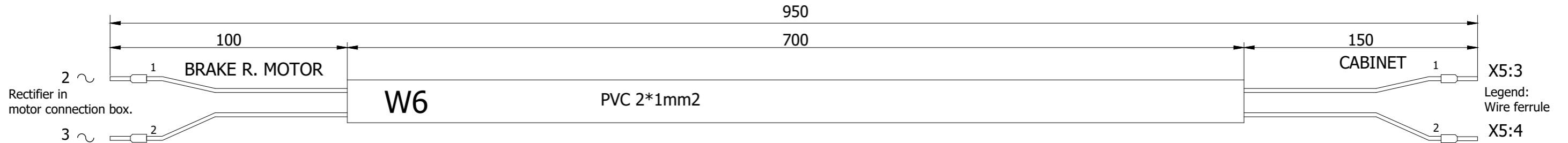
Legend:  
Fork cable tag  
Red M4  
1 = U1  
2 = V1  
3 = W1  
Eye cable tag  
Red M4  
4 = Schield and is to be connected in the EMC cable gland  
PE= (Green/Yellow)

950



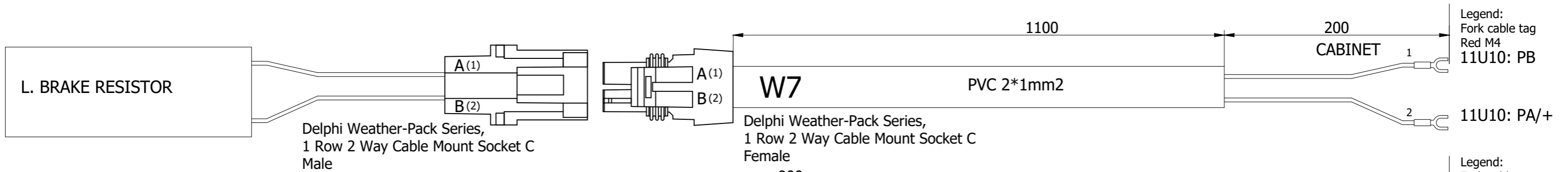
X5:1  
Legend:  
Wire ferrule  
X5:2

950



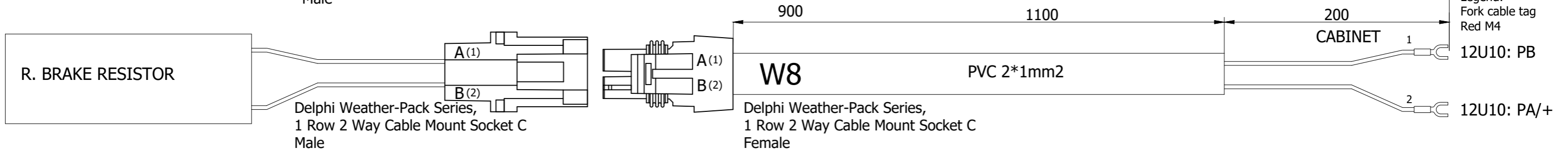
X5:3  
Legend:  
Wire ferrule  
X5:4

1100

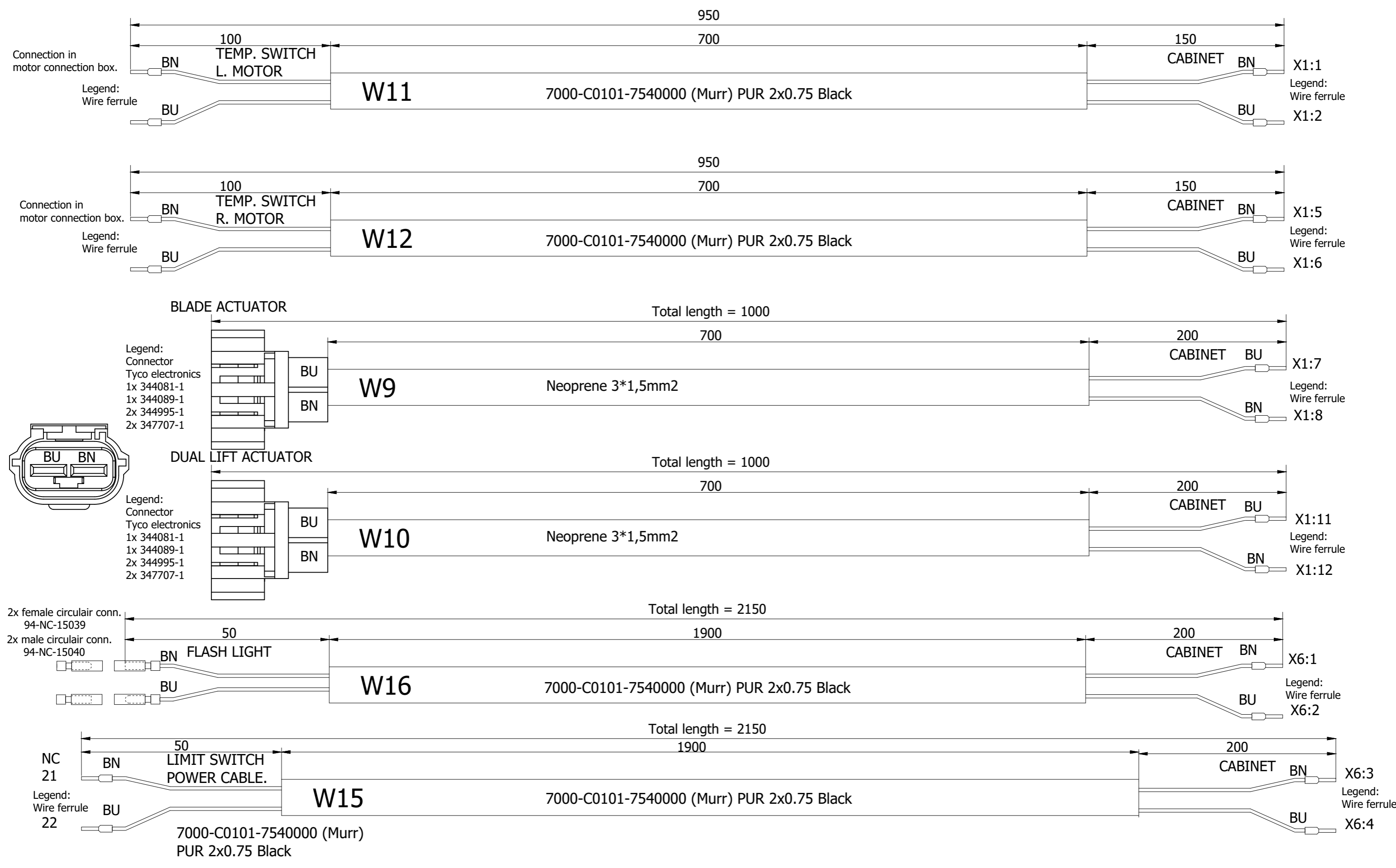


Legend:  
Fork cable tag  
Red M4  
11U10: PB  
11U10: PA/+

900



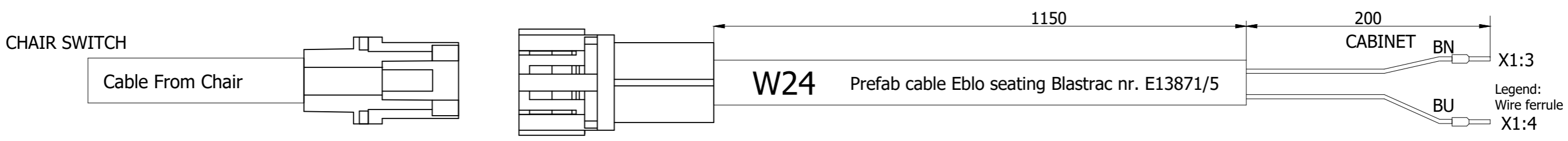
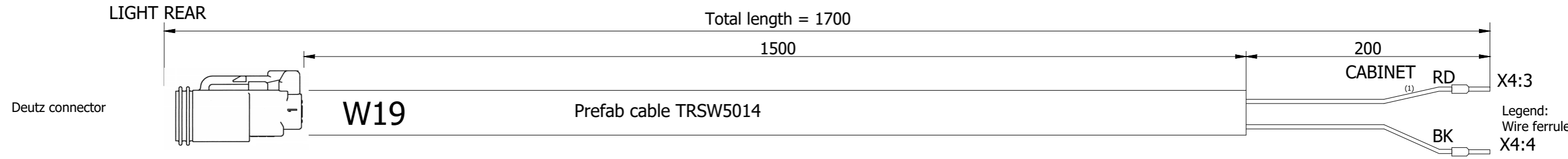
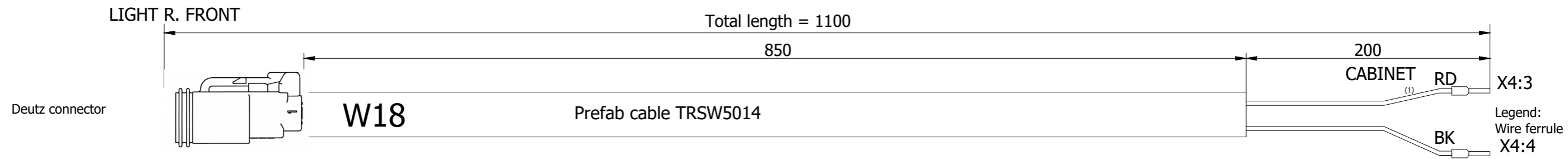
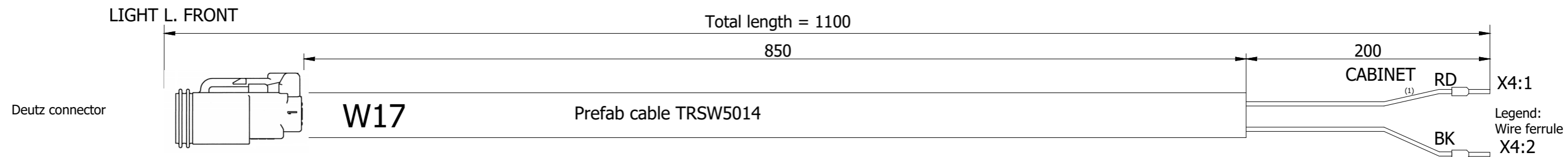
Legend:  
Fork cable tag  
Red M4  
12U10: PB  
12U10: PA/+



9

9b

			Date	30-9-2022	Project name:		Page description:	Cable set	Customer:	Blastrac bv.		= E1
			Ed.	HVDB								+
			Appr	--								
Modification	Date	Name	Last print	30-9-2022	ELECT. BOX 1X230V MKI E13999			Drawing number:	PJ19.1327.09		Page	<b>9a</b>



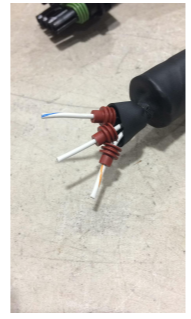
Date	13-1-2021			
Ed.	HVDB			
Appr	--			
Modification	Date	Name	Last print	30-9-2022

Project name: **BMS-150E**  
**ELECT. BOX 1X230V MKI**  
**E13999**

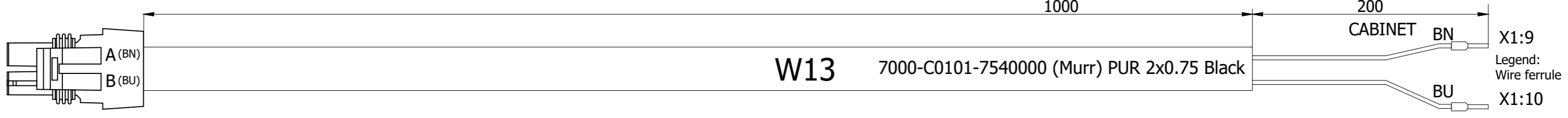


Page description: **Cable set**

Customer: **Blastrac bv.**  
 Drawing number: **PJ19.1327.09**



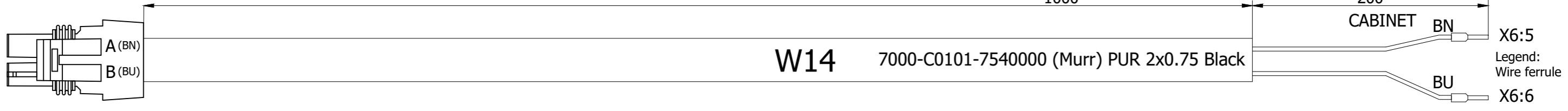
LIMIT SWITCH  
BLADE POS.



**W13** 7000-C0101-7540000 (Murr) PUR 2x0.75 Black

Delphi Weather-Pack Series,  
1 Row 2 Way Cable Mount Socket C  
Female

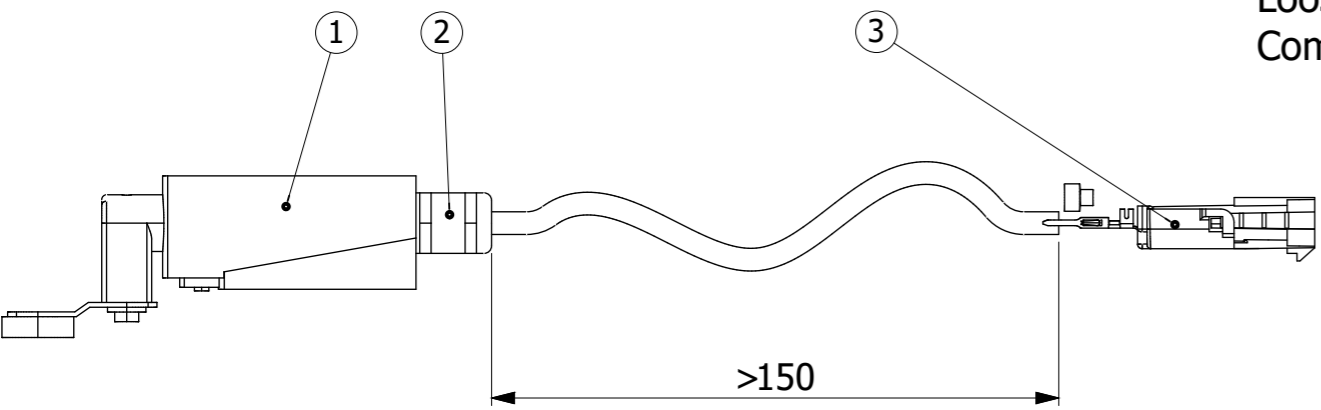
LIMIT SWITCH  
DUAL LIFT POS.



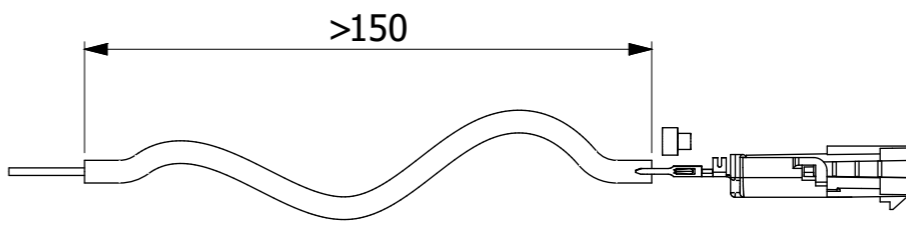
**W14** 7000-C0101-7540000 (Murr) PUR 2x0.75 Black

Delphi Weather-Pack Series,  
1 Row 2 Way Cable Mount Socket C  
Female

**2x E14913**



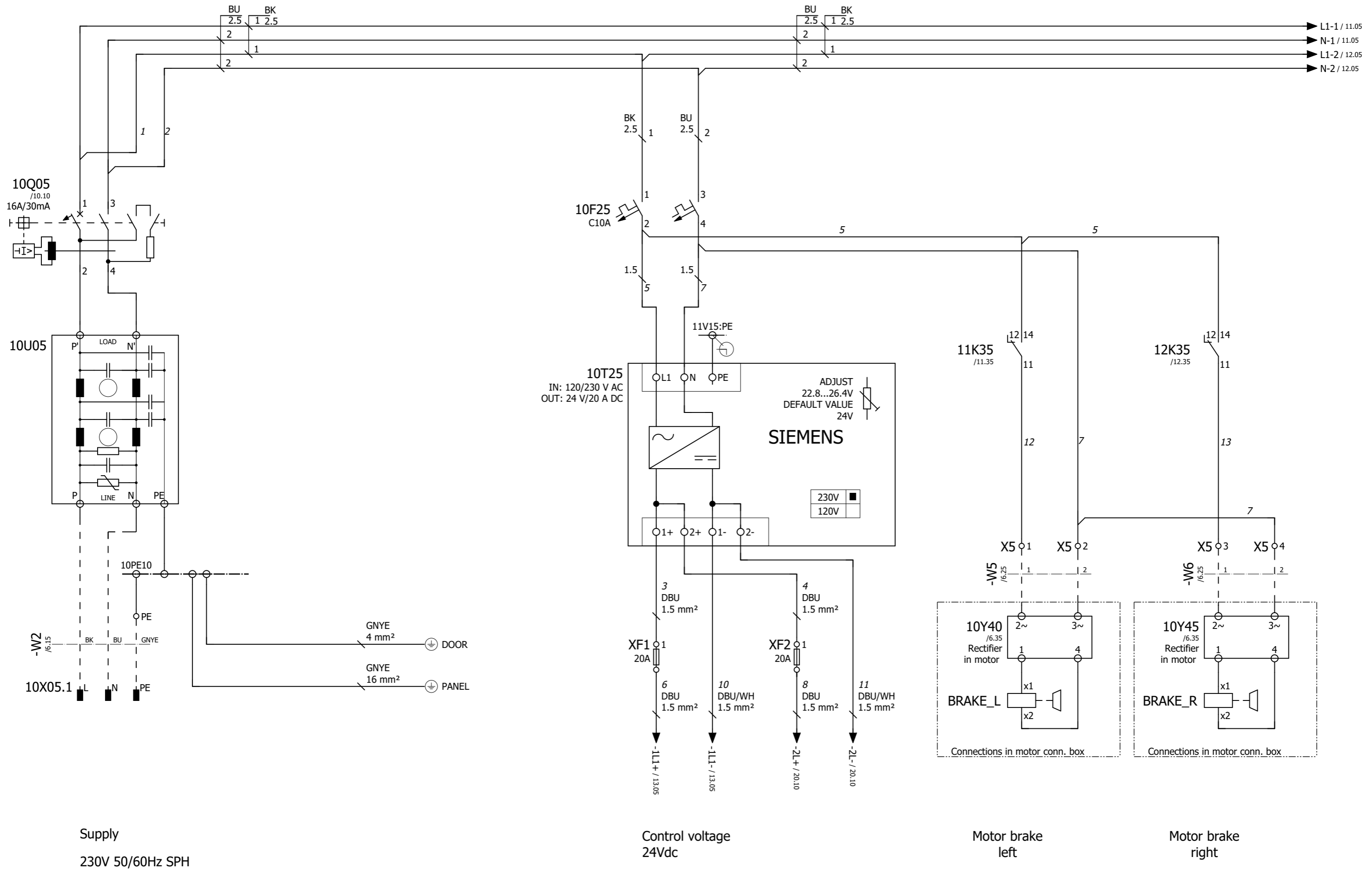
Loose delivery  
Compleet assembled



**E14942**

3	1	E14942	Cable limitswitch
2	1	E00405	SWIVEL M16
1	1	E05003	Limit switch
ITEM	QTY.	PART NUMBER	DESCRIPTION

4	2	E17023	Delphi weather pack male terminal	12124582
3	2	E13496	Delphi metri-pack wire seal	15324982
2	1	E17018	Delphi Weather-pack cable mount plug	12010973
1	1	E17127	Cable drum $\varnothing$ 355mm PUR 2x0.75 Black UL/CSA	7000-C0101-7540000
ITEM	QTY.	PART NUMBER	DESCRIPTION	VendorNo



Supply  
230V 50/60Hz SPH

Control voltage  
24Vdc

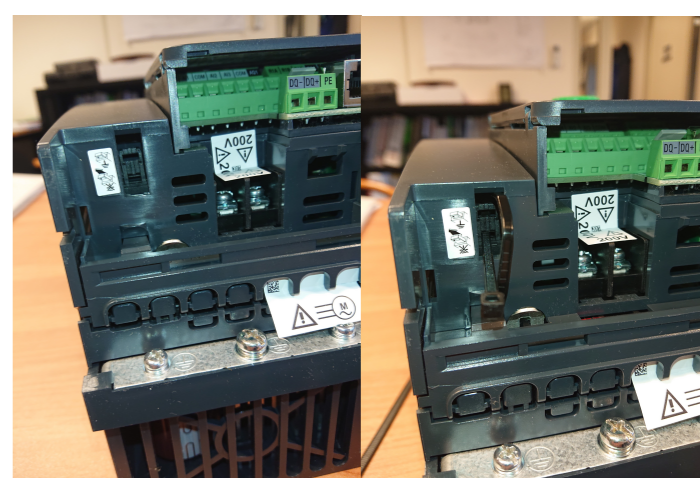
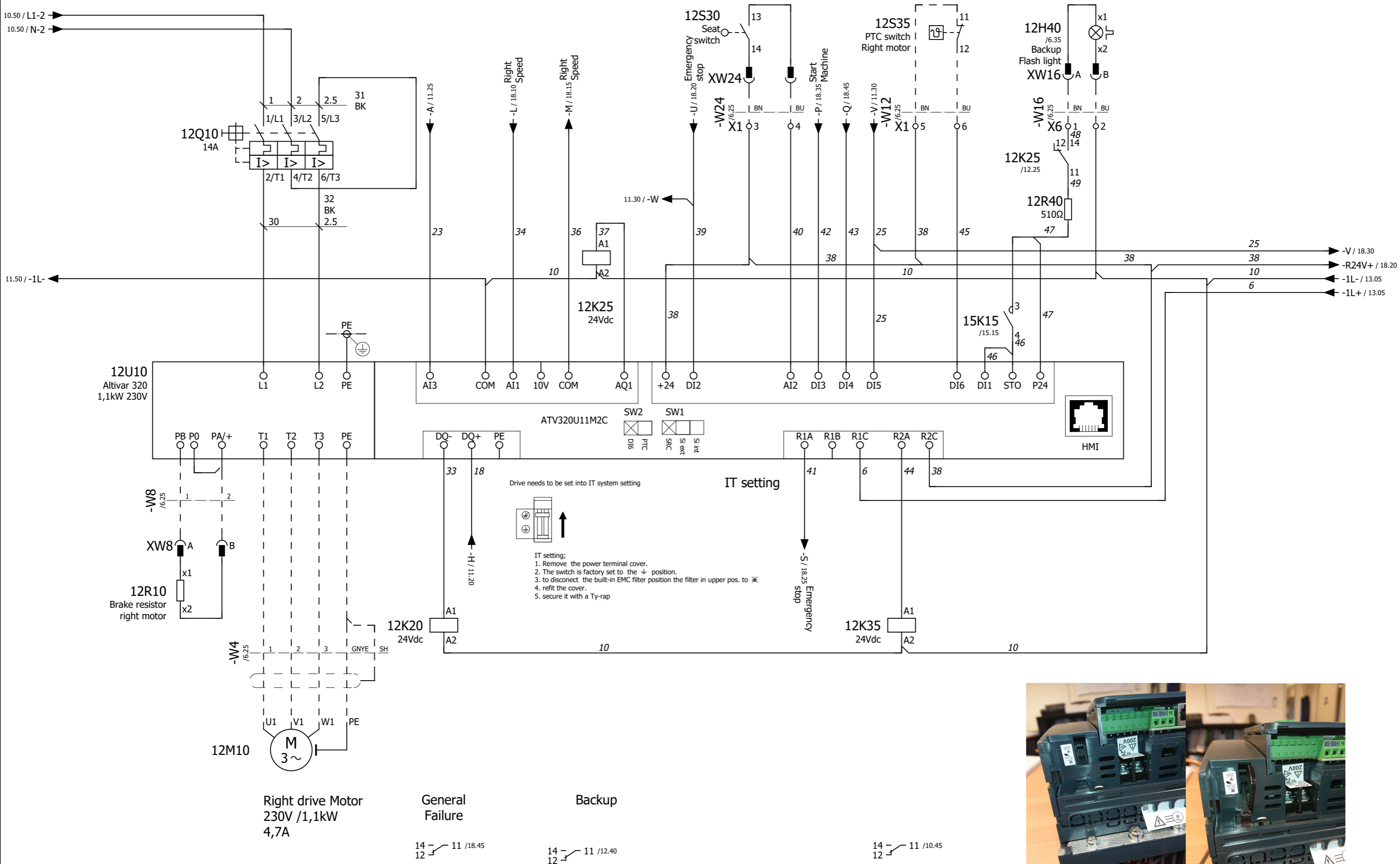
Motor brake  
left

Motor brake  
right

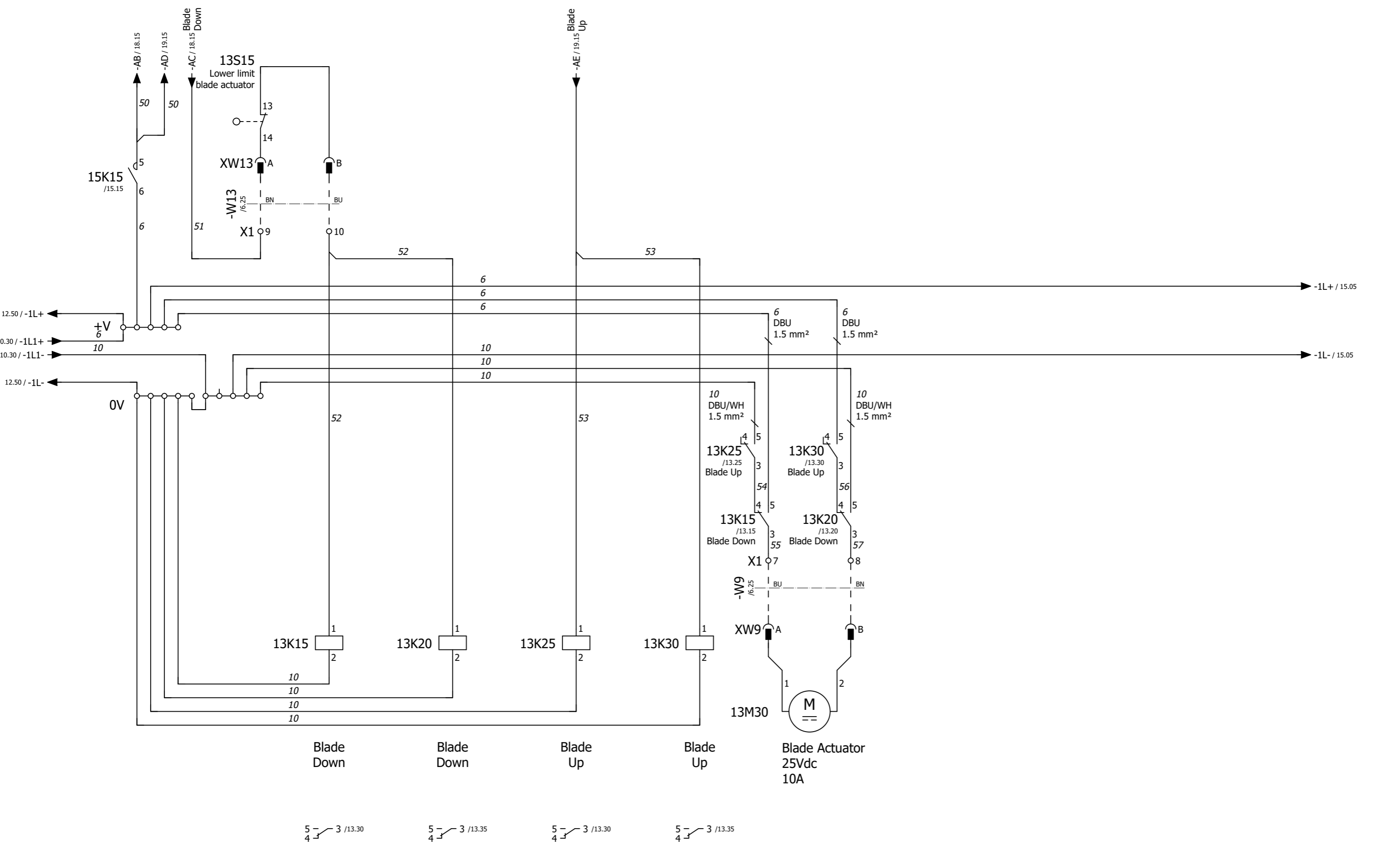
			Date	5-5-2022	Project name:	BMS-150E ELECT. BOX 1X230V MKI E13999		Page description:	Main Current	Customer:	Blastrac bv.		= E1 +			
			Ed.	HVDB							Drawing number:	PJ19.1327.09		Page	10	
Modification	Date	Name	Last print	30-9-2022												







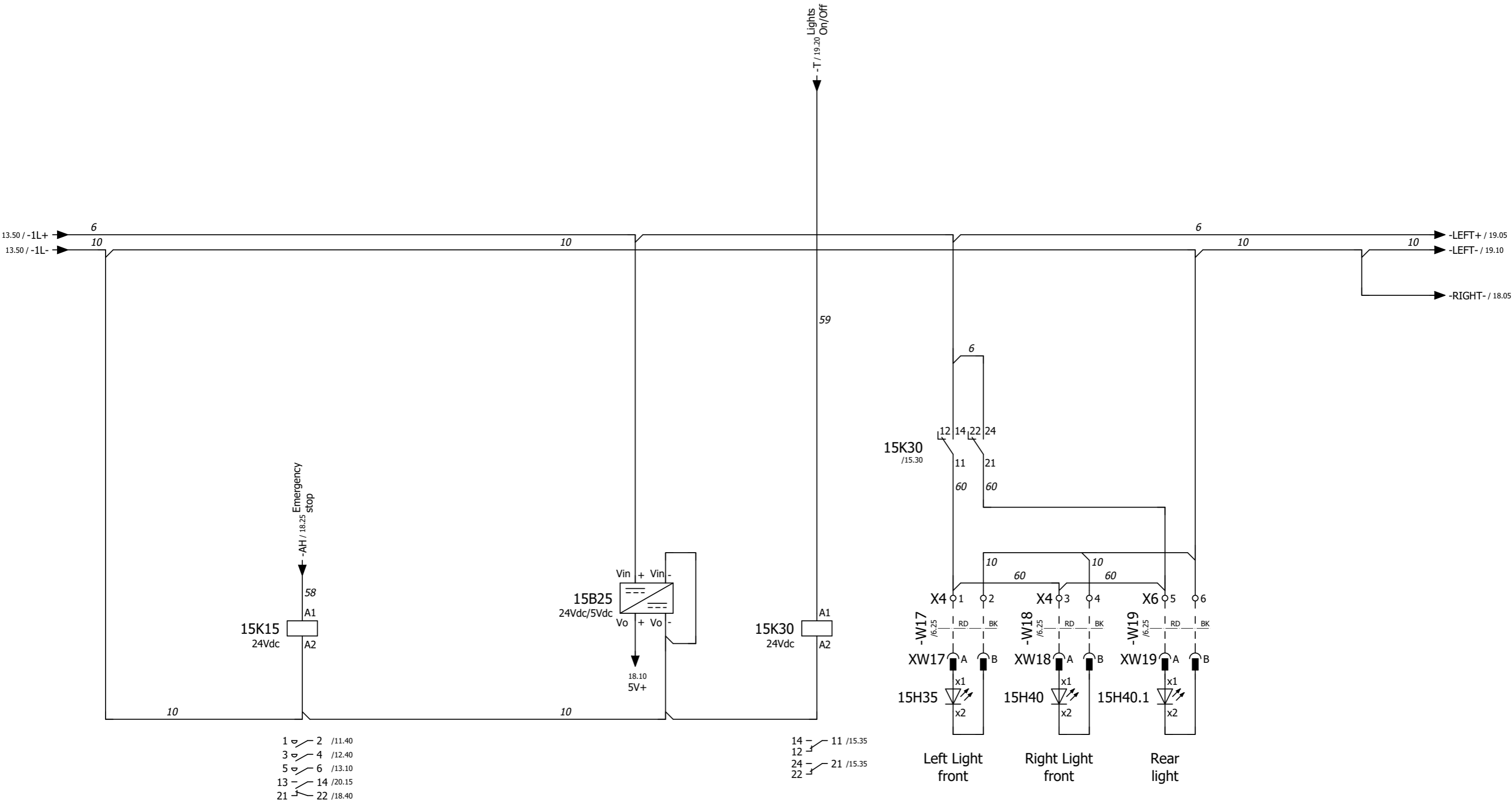




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			Ed.	HvdB									+
			Appr.	--									
Modification	Date	Name	Last print	30-9-2022							Drawing number:	<b>PJ19.1327.09</b>	Page

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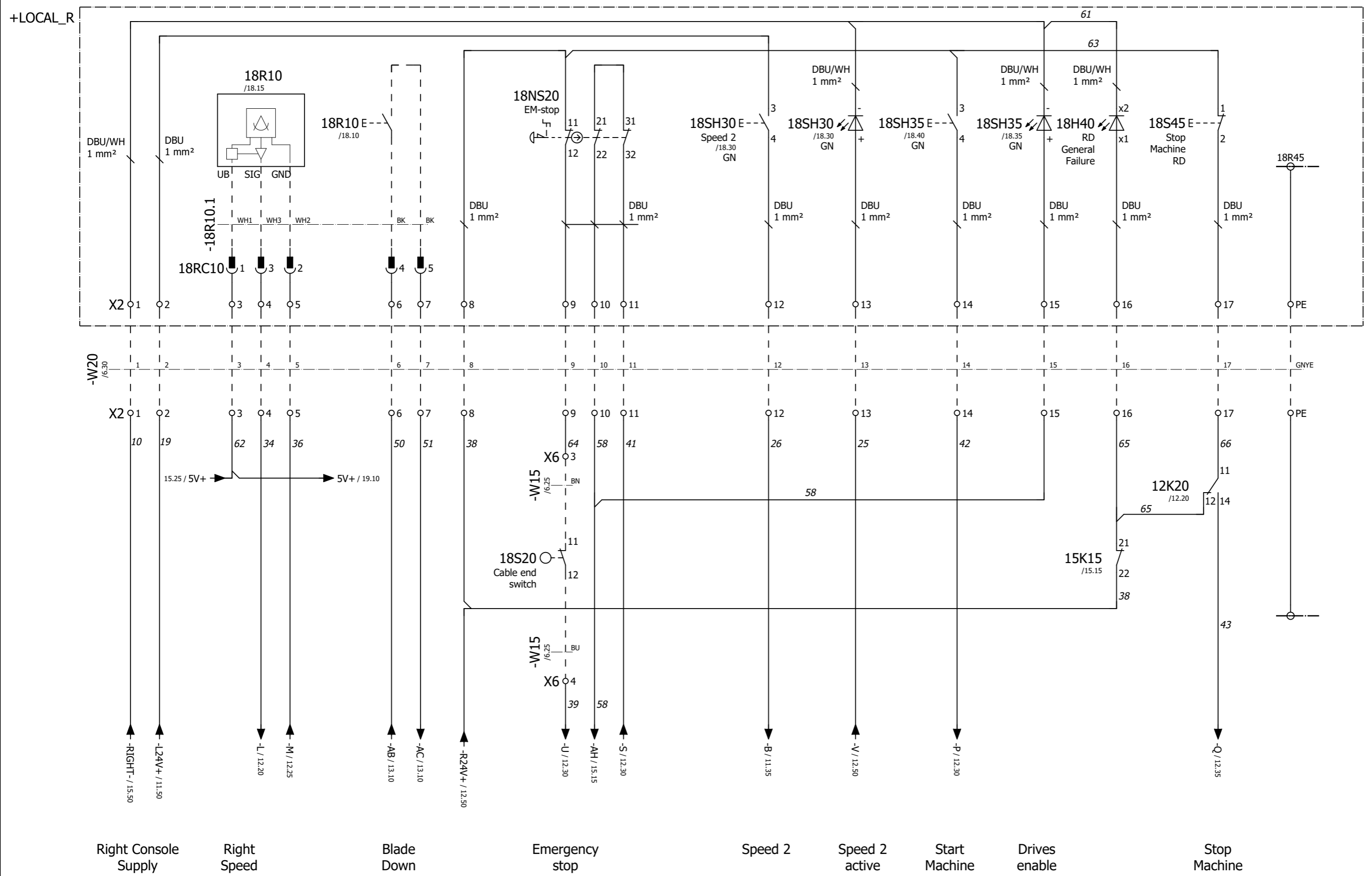
- 1 2 /11.40
- 3 4 /12.40
- 5 6 /13.10
- 13 14 /20.15
- 21 22 /18.40

- 14 11 /15.35
- 12 21 /15.35

			Date	15-4-2021	Project name: <b>BMS-150E</b> <b>ELECT. BOX 1X230V MKI</b> <b>E13999</b>		Page description:		Customer:	<b>Blastrac bv.</b>	= E1
			Ed.	HvdB			Control Current				+
Modification	Date	Name	Appr	--					Drawing number:	<b>PJ19.1327.09</b>	Page
			Last print	30-9-2022							

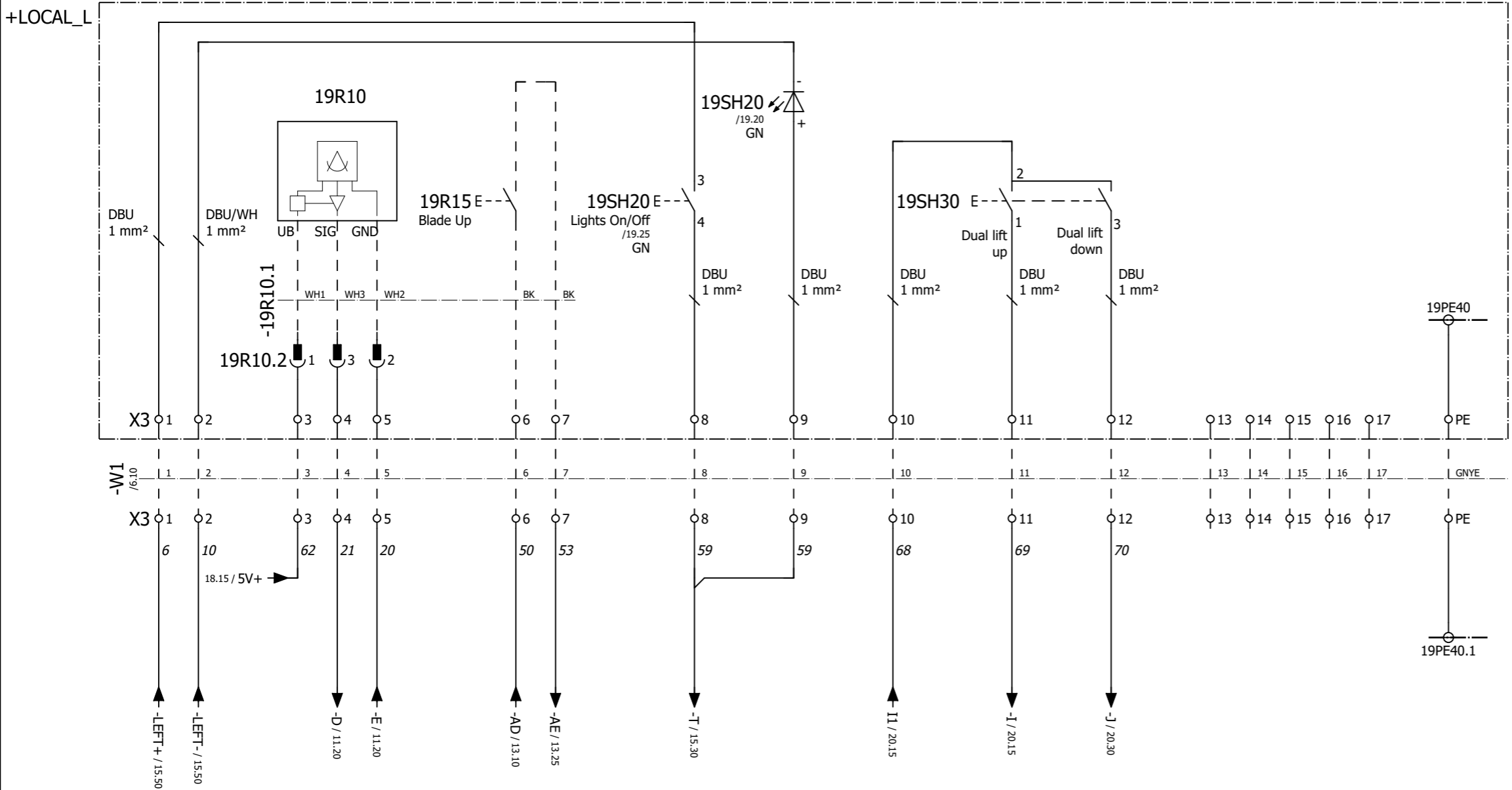
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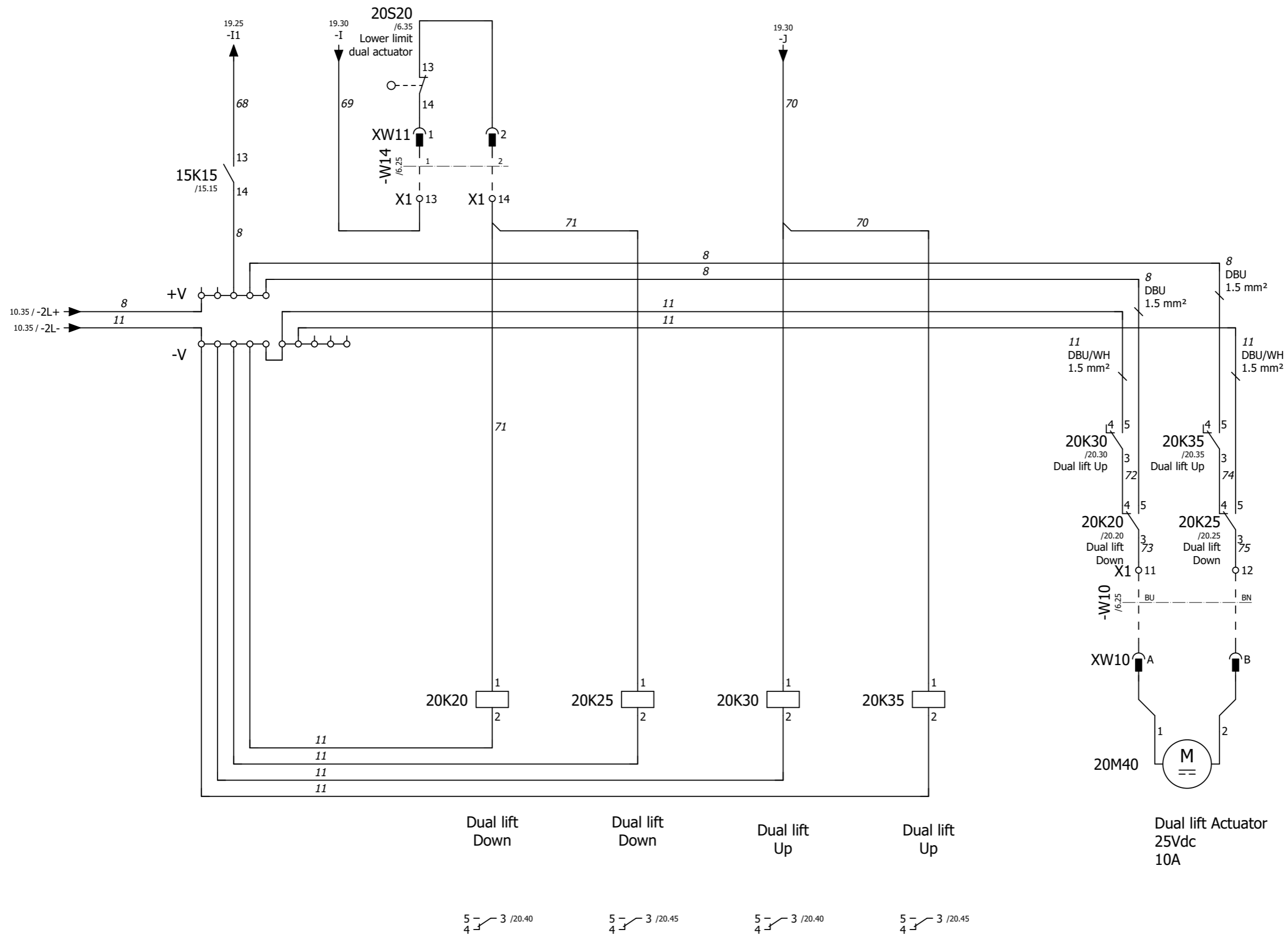
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			Ed.	HvdB									+	
			Appr.	--										Page
Modification	Date	Name	Last print	30-9-2022								Drawing number:	<b>PJ19.1327.09</b>	

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			Date	14-4-2021	Project name: <b>BMS-150E</b> <b>ELECT. BOX 1X230V MKI</b> <b>E13999</b>		Page description: Controls console Left side	Customer:	<b>Blastrac bv.</b>	= E1	
			Ed.	HvdB							+
			Appr.	--							
Modification	Date	Name	Last print	30-9-2022				Drawing number:	<b>PJ19.1327.09</b>	Page <b>19</b>	

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Date	14-4-2021
Ed.	HvdB
Appr	--
Last print	30-9-2022

Project name: **BMS-150E**  
**ELECT. BOX 1X230V MKI**  
**E13999**



Page description: **Controls Dual lift**

Customer: **Blastrac bv.**  
 Drawing number: **PJ19.1327.09**

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# Terminal diagram

Page / column		Cable name	Strip =E1+-0V				Cable name	function text											
		cable type	Connection point	Target designation	jumper	terminal	Connection point	Target designation	cable type										
/13.10			A2	-12K35			2	-13K30											
							2	-13K25											
							2	-13K20											
							2	-13K15											
/13.10							1-	-10T25											
							A2	-15K15											
							5	-13K20											
							5	-13K25											



# Terminal diagram

Page / column	Cable name				Strip =E1+-X1					Cable name				function text	
					Connection point	Target designation	jumper	terminal	Connection point	Target designation	cable type				
/11.35					R2C	-11U10		1	11	-11S35	BN				Second speed
					+24	-11U10									
/11.35					DI6	-11U10		2	12	-11S35	BU				Second speed
/12.30					+24	-12U10		3		-XW24		BN			Seat switch
					R2C	-12U10									
/12.30					AI2	-12U10		4		-XW24		BU			Seat switch
/12.35					R2C	-12U10		5	11	-12S35			BN		Backup
/12.35					DI6	-12U10		6	12	-12S35			BU		=
/13.30					3	-13K15		7	A	-XW9				BU	Blade Up
/13.35					3	-13K20		8	B	-XW9				BN	Blade Actuator 25Vdc 10A
/13.15					7	-X2		9	A	-XW13				BN	Upper limit spindle
/13.15					1	-13K15		10	B	-XW13				BU	=
					1	-13K20									
/20.40					3	-20K20		11	A	-XW10				BU	Dual lift Up
/20.45					3	-20K25		12	B	-XW10				BN	Dual lift Actuator 25Vdc 10A
/20.20					11	-X3		13	1	-XW11					spare
/20.20					1	-20K20		14	2	-XW11					=
					1	-20K25									

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# Terminal diagram

Page / column	Cable name					Strip =E1+-X3					Cable name					function text		
						Connection point	Target designation	jumper	terminal	Connection point	Target designation							INST
/19.05						14	-15K30		1	1	+LOCAL_L-X3						1	
/19.10						1	-X2		2	2	+LOCAL_L-X3						2	Left Console Supply
/19.10						3	-X2		3	3	+LOCAL_L-X3						3	Left Speed
/19.10						AI1	-11U10		4	4	+LOCAL_L-X3						4	=
/19.10						COM	-11U10		5	5	+LOCAL_L-X3						5	=
/19.15						5	-15K15		6	6	+LOCAL_L-X3						6	Blade Up
/19.15						1	-13K25		7	7	+LOCAL_L-X3						7	=
						1	-13K30											
/19.20						A1	-15K30		8	8	+LOCAL_L-X3						8	Lights On/Off
/19.25						A1	-15K30		9	9	+LOCAL_L-X3						9	Lights On
/19.25						13	-15K15		10	10	+LOCAL_L-X3						10	=
/19.30						13	-X1		11	11	+LOCAL_L-X3						11	Dual lift down
/19.30						1	-20K30		12	12	+LOCAL_L-X3						12	spare
						1	-20K35											
/19.35									13	13	+LOCAL_L-X3						13	spare
/19.35									14	14	+LOCAL_L-X3						14	=
/19.35									15	15	+LOCAL_L-X3						15	=
/19.35									16	16	+LOCAL_L-X3						16	=
/19.35									17	17	+LOCAL_L-X3						17	=
/19.40							-19PE40.1		PE	PE	+LOCAL_L-X3						GNYE	Dual lift up

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# Parts list

device tag	Quantity	designation	Type number	Brand	Blastrac number
-V	2	Phoenix PTFIX 6x1.5 GY – Distribution block	PTFIX 6X1.5 GY – 3002757	Phoenix Contact	E17168
-V	1	Phoenix PTFIX-NS35 - DIN rail adapter	PTFIX 1,5-NS35 - 1049497	Phoenix Contact	E17444
-V	1	Plug-in bridge FBS 2-4 GY	PHOENIX 3030118	Phoenix Contact	E17475
-X1	1	Endbracket V4 small 9708/2S35	EINDSTEUN V4 CON.ACC	Wieland	E07828
-X1	1	End plate, Partition plate, dark Beige Wemid	WEID ZAP/TW ZDK2.5-2	Weidmuller	E10810
-X1	7	tension clamp connection Wemid, Dark Beige	WEID ZDK 2.5-2	Weidmuller	E10811
-X2	2	Endbracket V4 small 9708/2S35	EINDSTEUN V4 CON.ACC	Wieland	E07828
-X2	1	End plate, Partition plate, dark Beige Wemid	WEID ZAP/TW ZDK2.5-2	Weidmuller	E10810
-X2	9	tension clamp connection Wemid, Dark Beige	WEID ZDK 2.5-2	Weidmuller	E10811
-X2	1	PE terminal Wemid, green/yellow	WEID ZDK 2.5-2PE	Weidmuller	E10886
-X3	2	Endbracket V4 small 9708/2S35	EINDSTEUN V4 CON.ACC	Wieland	E07828
-X3	1	End plate, Partition plate, dark Beige Wemid	WEID ZAP/TW ZDK2.5-2	Weidmuller	E10810
-X3	9	tension clamp connection Wemid, Dark Beige	WEID ZDK 2.5-2	Weidmuller	E10811
-X3	1	PE terminal Wemid, green/yellow	WEID ZDK 2.5-2PE	Weidmuller	E10886
-X4	1	End plate, Partition plate, dark Beige Wemid	WEID ZAP/TW ZDK2.5-2	Weidmuller	E10810
-X4	2	tension clamp connection Wemid, Dark Beige	WEID ZDK 2.5-2	Weidmuller	E10811
-X5	1	End plate, Partition plate, dark Beige Wemid	WEID ZAP/TW ZDK2.5-2	Weidmuller	E10810
-X5	2	tension clamp connection Wemid, Dark Beige	WEID ZDK 2.5-2	Weidmuller	E10811
-X5	1	Endbracket V4 small 9708/2S35	EINDSTEUN V4 CON.ACC	Wieland	E07828
-X6	1	End plate, Partition plate, dark Beige Wemid	WEID ZAP/TW ZDK2.5-2	Weidmuller	E10810
-X6	3	tension clamp connection Wemid, Dark Beige	WEID ZDK 2.5-2	Weidmuller	E10811
-XF1	1	Zekeringklem voor Vlakzekering	WEID ZSI 6-2/FC LD	Weidmuller	E10887
-XF1	1	STEEKZEK. ATO fast 20A	ZEK.STEEK 20A	Generic	E17514
-XF2	1	Zekeringklem voor Vlakzekering	WEID ZSI 6-2/FC LD	Weidmuller	E10887
-XF2	1	End plate for ZSI	WEID ZAP ZDU 6-2 SW	Weidmuller	E13070
-XF2	1	STEEKZEK. ATO fast 20A	ZEK.STEEK 20A	Generic	E17514
-XW7	1	Delphi Weather-Pack Series, 1 Row 2 Way Cable Mount Socket C	12015792	Delphi	E17019
-XW7	2	Delphi weather -pack series fermela terminal	12124580	Delphi	E17022
-XW7	2	Delphi metri-Pack Series, wire seal for use connectors	15324982	Delphi	E13496
-XW8	1	Delphi Weather-Pack Series, 1 Row 2 Way Cable Mount Socket C	12015792	Delphi	E17019
-XW8	2	Delphi weather -pack series fermela terminal	12124580	Delphi	E17022
-XW8	2	Delphi metri-Pack Series, wire seal for use connectors	15324982	Delphi	E13496
-XW9	2	receptacle contact strip / AMP	AMP 344070-1	TYCO	E17517
-XW9	1	Lock plate white nylon / AMP	AMP 344089-1	TYCO	E17518
-XW9	1	Housing black nylon / AMP	AMP 344081-1	TYCO	E17513
-XW10	2	receptacle contact strip / AMP	AMP 344070-1	TYCO	E17517
-XW10	1	Lock plate white nylon / AMP	AMP 344089-1	TYCO	E17518
-XW10	1	Housing black nylon / AMP	AMP 344081-1	TYCO	E17513
-XW11	1	Delphi Weather-Pack Series, 1 Row 2 Way Cable Mount Socket C	12015792	Delphi	E17019
-XW11	2	Delphi Weather-Pack Series Female Terminal for use with Auto	12089188	Delphi	E17526
-XW11	2	Delphi metri-Pack Series, wire seal for use connectors	15324982	Delphi	E13496
-XW13	1	Delphi Weather-Pack Series, 1 Row 2 Way Cable Mount Socket C	12015792	Delphi	E17019
-XW13	2	Delphi Weather-Pack Series Female Terminal for use with Auto	12089188	Delphi	E17526
-XW13	2	Delphi metri-Pack Series, wire seal for use connectors	15324982	Delphi	E13496
-XW16	2	Crimp Term, Bullet Female 4mm, Red 0.5-1.65mm2	94-NC-15039	Calpe	E17222
-XW16	2	Crimp Term, Bullet Male 4mm, Red 0.5-1.65mm2	94-NC-15040	Calpe	E17221
-XW17	1	4 mtr cable for led 12watt/1136lumen	TRSW5014	Tralert	E17428
-XW18	1	4 mtr cable for led 12watt/1136lumen	TRSW5014	Tralert	E17428
-XW19	1	4 mtr cable for led 12watt/1136lumen	TRSW5014	Tralert	E17428
-XW24	1	Seat witch cable	E13871/5	EBLO	E13871/5
-0V	2	Phoenix PTFIX 6x1.5 GY – Distribution block	PTFIX 6X1.5 GY – 3002757	Phoenix Contact	E17168
-0V	1	Phoenix PTFIX-NS35 - DIN rail adapter	PTFIX 1,5-NS35 - 1049497	Phoenix Contact	E17444
-0V	1	Plug-in bridge FBS 2-4 GY	PHOENIX 3030118	Phoenix Contact	E17475
-8M0	1	Cabel gland M16*1.5 (PG9/11) IP68 brass, nickel-plated 50616	WARTEL M16*1.5	Jacob	E00405
-8M0	1	Earth bar M5 25A 10x2 /m	AARDRAIL 1263/60	Generic	E13184
-8M0	6	Cabel gland M20*1.5 8-13MM brass, nickel-plated	WARTEL M20*1.5	Jacob	E00406

Date	12-4-2022	Project name: <b>BMS-150E</b> <b>ELECT. BOX 1X230V MKI</b> <b>E13999</b>		Page description: <b>Parts list</b>	Customer:	<b>Blastrac bv.</b>	= E1
Ed.	HVDB				Drawing number:	<b>PJ19.1327.09</b>	+
Appr	--						Page
Modification	Date	Name	Last print	30-9-2022			



# Parts list

device tag	Quantity	designation	Type number	Brand	Blastrac number
-8M0	7	Ozoflex neoprene cable 3*1.5 mm	H07RN-F 3*1.5 MM	Eupen Cable	E08399
-8M0	2	Cable gland M20 EMC/EMV brass, nickel-plated	JACO 50.620 M/EMV	Jacob	E08267
-8M0	4	PVC 2*1 genummerd 1-2	STUURSTROOMKAB 2*1	Bruflex cable	E13320
-8M0	8	2YSLCY-J 0.6 4*1.5 EMC AWG16	MOTORKABEL EMV 4*1.5 MM	Böhm kabeltechnik	E13141
-8M0	10	Cable Drum Ø 355mm PUR 2x0.75 black,UL/CSA	7000-C0101-7540000	Murr Elektronik	E17127
-8M0	4	PVC 18*1 genummerd	STUURSTROOMKAB 18*1	Bruflex cable	E13036
-8M0	6	Silencer @25*10 2xM6 male	@25*10*M6-M6 M-M	Generic	E17257
-8M0	2	Wartel doorvoer M20 4x5	WJ-DM 20 /4X5	Jacob	E17464
-8M0	1	BOM Body BMS-150 Blastrac Infra Blue	E14884-BL	Blastrac Poland Sp. z o.o	E14884-BL
-8M0	1	Tracopower-TEP-MK1-mounting clip Din Rail Tep series	TEP-MK1	Traco power	E17300
-8M0	4	3-2922/1T /	3U999600	Ripca	E17512
-8M0	2	Housing black nylon / AMP	AMP 344081-1	TYCO	E17513
-8M0	2	Crimp Term, Bullet Female 4mm, Red 0.5-1.65mm2	94-NC-15039	Calpe	E17222
-8M0	2	Crimp Term, Bullet Male 4mm, Red 0.5-1.65mm2	94-NC-15040	Calpe	E17221
-8M0	16	Cabletag Faston 2.8/0.5*19.5 0.25-1:65 red	IS-NC-15028-2	Calpe	E17250
-8M0	5	Wartel doorvoer M20 2x6	25-WJ-DM 20/2X6	Jacob	E17190
-10F25	1	Circuit breaker AB 1P+N 10A C-kar	C60N-1492-SPM1C100-N	Allen Bradley	E17460
-10Q05	1	Residual current device 16A 2P 30MA	A9DC4616	Schneider Electric	E17327
-10Q05	1	Earth terminal for ZDU 4 2*4(6)mm	WEID ZPE 4	Weidmuller	E08410
-10Q05	1	End plate Beige for ZDU 4	WEID ZAP/TW 4 DB	Weidmuller	E08411
-10T25	1	SITOP PSU100L 24 V/20 A Stabilized power sup. input:100/240V	6EP1336-1LB00	Siemens	E17461
-10U05	1	Multi-stage AC/DC EMI Filter	FN2090-16-06	Schaffner	E17835
-11K35	1	Interface relay 1CO 6A@220VAC	WEID TRZ 24VDC 1CO	Weidmuller	E08493
-11Q10	1	Motor circuit breaker 14A	GV2-L16	Schneider Electric	E17462
-11U10	1	Variable speed drive ATV320-1.1KW-200...240V 1 phase	ATV320U11M2C	Schneider Electric	E17463
-12H40	1	Velleman Signal lamp HAA40AN Orange	HAA40AN	Velleman	E17457
-12K20	1	Interface relay 1CO 6A@220VAC	WEID TRZ 24VDC 1CO	Weidmuller	E08493
-12K25	1	Interface relay 1CO 6A@220VAC	WEID TRZ 24VDC 1CO	Weidmuller	E08493
-12K35	1	Interface relay 1CO 6A@220VAC	WEID TRZ 24VDC 1CO	Weidmuller	E08493
-12Q10	1	Motor circuit breaker 14A	GV2-L16	Schneider Electric	E17462
-12R40	1	TE Connectivity Axial Metal Film Resistor 510Ohm	LR1F510R	TE-Connectivity	E17331
-12R40	1	Accessoires, Component plug	WEID BEST	Weidmuller	E13069
-12R40	2	Test-disconnection terminal, Wemid beige	WEID ZTR 2.5	Weidmuller	E13068
-12U10	1	Variable speed drive ATV320-1.1KW-200...240V 1 phase	ATV320U11M2C	Schneider Electric	E17463
-13K15	1	Automotive Relay, 24VDC, 30A, SPDT, through hole,SRZ series	SRZ-1CT-DL-24VDC	IMO	E13358
-13K15	1	Relayholder Micro RELH003B vpe=5	RELH003B	Ripca	E13374
-13K15	1	Relais holder	E14964		E14884-BL
-13K20	1	Automotive Relay, 24VDC, 30A, SPDT, through hole,SRZ series	SRZ-1CT-DL-24VDC	IMO	E13358
-13K20	1	Relayholder Micro RELH003B vpe=5	RELH003B	Ripca	E13374
-13K25	1	Automotive Relay, 24VDC, 30A, SPDT, through hole,SRZ series	SRZ-1CT-DL-24VDC	IMO	E13358
-13K25	1	Relayholder Micro RELH003B vpe=5	RELH003B	Ripca	E13374
-13K30	1	Automotive Relay, 24VDC, 30A, SPDT, through hole,SRZ series	SRZ-1CT-DL-24VDC	IMO	E13358
-13K30	1	Relayholder Micro RELH003B vpe=5	RELH003B	Ripca	E13374
-15B25	1	MNWL DDR-15G-5 CONVERTER 5VDC 3A	MEANWELL DDR-15G-5	Meanwell	E17662
-15K15	1	Contacteur 4.0kW 400VAC coil 24VDC(LP) 1NO/1NC	LC1-D09-BL	Schneider Electric	E13228
-15K30	1	relay 2P,+LED+testbut.+diode 24VDC/5A	OMRON G2R-2-SNDI 24DC	Omron	E05187
-15K30	1	Screwless clamp terminal socket for G2R-2	OMRON P2RF-08-PU	Omron	E13064
-20K20	1	Automotive Relay, 24VDC, 30A, SPDT, through hole,SRZ series	SRZ-1CT-DL-24VDC	IMO	E13358
-20K20	1	Relayholder Micro RELH003B vpe=5	RELH003B	Ripca	E13374
-20K25	1	Automotive Relay, 24VDC, 30A, SPDT, through hole,SRZ series	SRZ-1CT-DL-24VDC	IMO	E13358
-20K25	1	Relayholder Micro RELH003B vpe=5	RELH003B	Ripca	E13374
-20K30	1	Automotive Relay, 24VDC, 30A, SPDT, through hole,SRZ series	SRZ-1CT-DL-24VDC	IMO	E13358
-20K30	1	Relayholder Micro RELH003B vpe=5	RELH003B	Ripca	E13374
-20K35	1	Automotive Relay, 24VDC, 30A, SPDT, through hole,SRZ series	SRZ-1CT-DL-24VDC	IMO	E13358
-20K35	1	Relayholder Micro RELH003B vpe=5	RELH003B	Ripca	E13374
-20S20	1	Limit switch with plug	E14913		

			Date	12-4-2022	Project name: <b>BMS-150E</b> <b>ELECT. BOX 1X230V MKI</b> <b>E13999</b>		Page description:		Customer:	<b>Blastrac bv.</b>	= E1
			Ed.	HVDB			Parts list				+
			Appr	--					Drawing number:	<b>PJ19.1327.09</b>	Page
Modification	Date	Name	Last print	30-9-2022							

# Terminal diagram

Page / column	Cable name				Strip =E1+LOCAL_L-X3					Cable name				function text	
	-W1				Connection point	jumper	terminal	Connection point	Target designation	cable type	-19R10.1				
+/19.05				1	1			3	-19SH20						
+/19.10				2	2			-	-19SH20						Left Console Supply
+/19.10				3	3			1	-19R10.2						Left Speed
+/19.10				4	4			3	-19R10.2						=
+/19.10				5	5			2	-19R10.2						=
+/19.15				6	6				-19R15		BK				Blade Up
+/19.15				7	7				-19R15		BK				=
+/19.20				8	8			4	-19SH20						Lights On/Off
+/19.25				9	9			+	-19SH20						Lights On
+/19.25				10	10			2	-19SH30						=
+/19.30				11	11			1	-19SH30						Dual lift down
+/19.30				12	12			3	-19SH30						spare
+/19.35				13	13										=
+/19.35				14	14										=
+/19.35				15	15										=
+/19.35				16	16										=
+/19.35				17	17										=
+/19.40				GNYE	PE			PE	-19PE40						Dual lift up

















