



SERVICE MANUAL BGS-250

VERSION 1.7



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Contact	

Serial number & Year of manufacture:

Date / hour counter	Findings	Repairs / Cleaning	Test on	By*

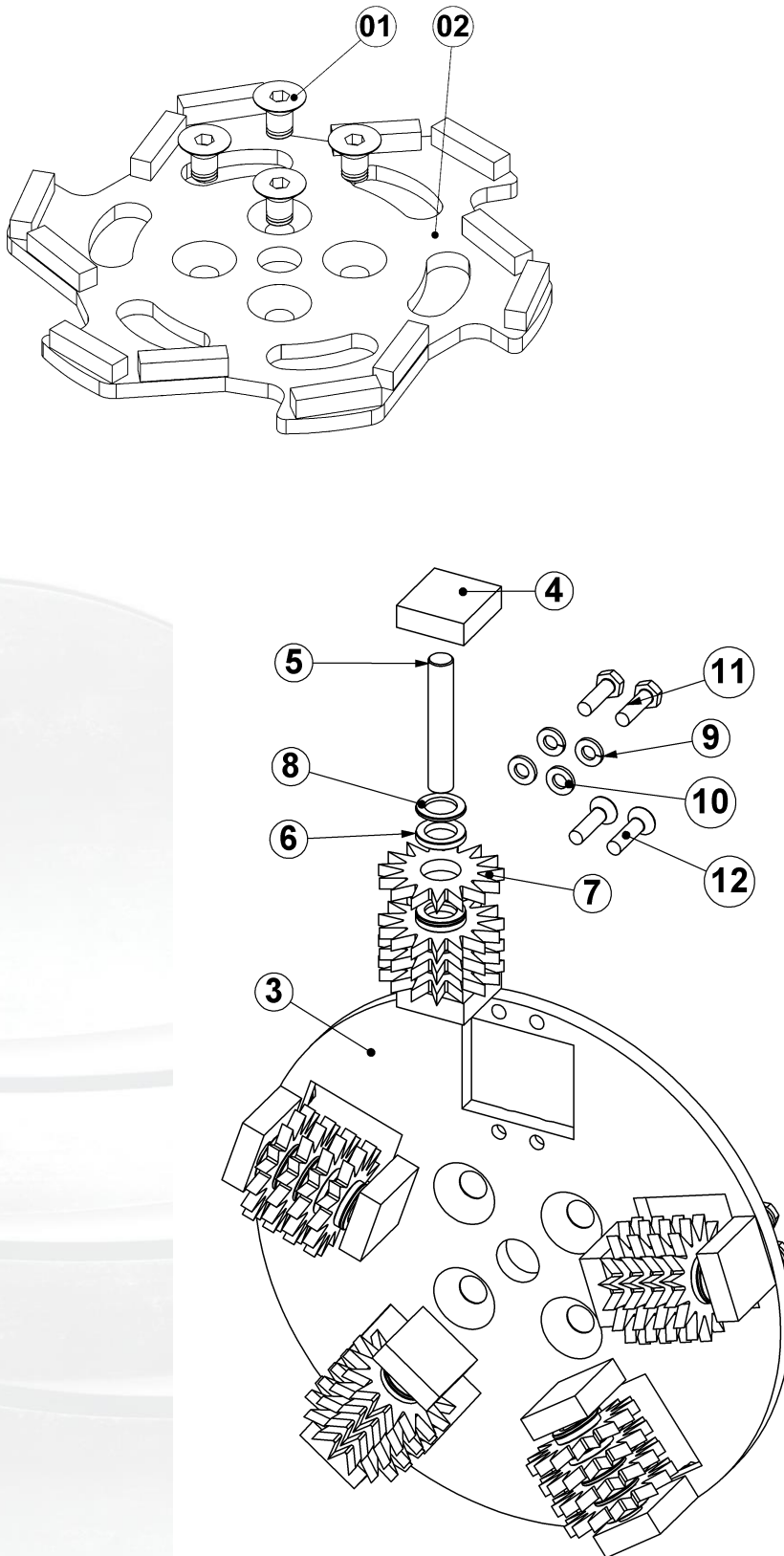
Spare parts**Fig. 01**



Fig. 01

Item	Blastrac PN	HQV PN	Description	Remarks	Qty.
1	BE0099	534581301	M12X20 hexagon countersunk bolt	Din 7991	4
2	BG707111	535787001	Ninja disc soft floor blue		1
	BG707112	533066801	Ninja disc medium green		1
	BG707113	535787101	Ninja disc hard floor red		1
	BG707114	533164001	Star disc extreme hard black		1
	BG707116	534248001	Star disc soft concrete blue		1
	BG707117	534248201	Star disc medium green		1
	BG707118	534248301	Star disc hard concrete red		1
	BG707250	533137201	250mm PCD disc		1
3	E03763-1	534263701	Cutter plate		1
4	E03882	534630901	Holder		10
5	E03883	534520901	Shaft		5
6	MPL36	534856101	Spacer ring		25
7	BG300109	533606501	Cutter		20
8	MPL35	535965501	Spacer ring		20
9	BE0017	534691501	M6 Spring lock washer	DIN 127 B	10
10	BE0016	533481901	M6 Washer	DIN 125-1A	10
11	BE0034	534692801	M6x20 Hexagon bolt	DIN 933	10
12	BE0100	534459001	M6x16 Hexagon countersunk bolt	DIN 7991	10
3-12	E04045	534729301	Multiflaile disc complete		1
5-8	E04045/1	534658401	Refill set for Multiflaile disc		1

Fig. 02

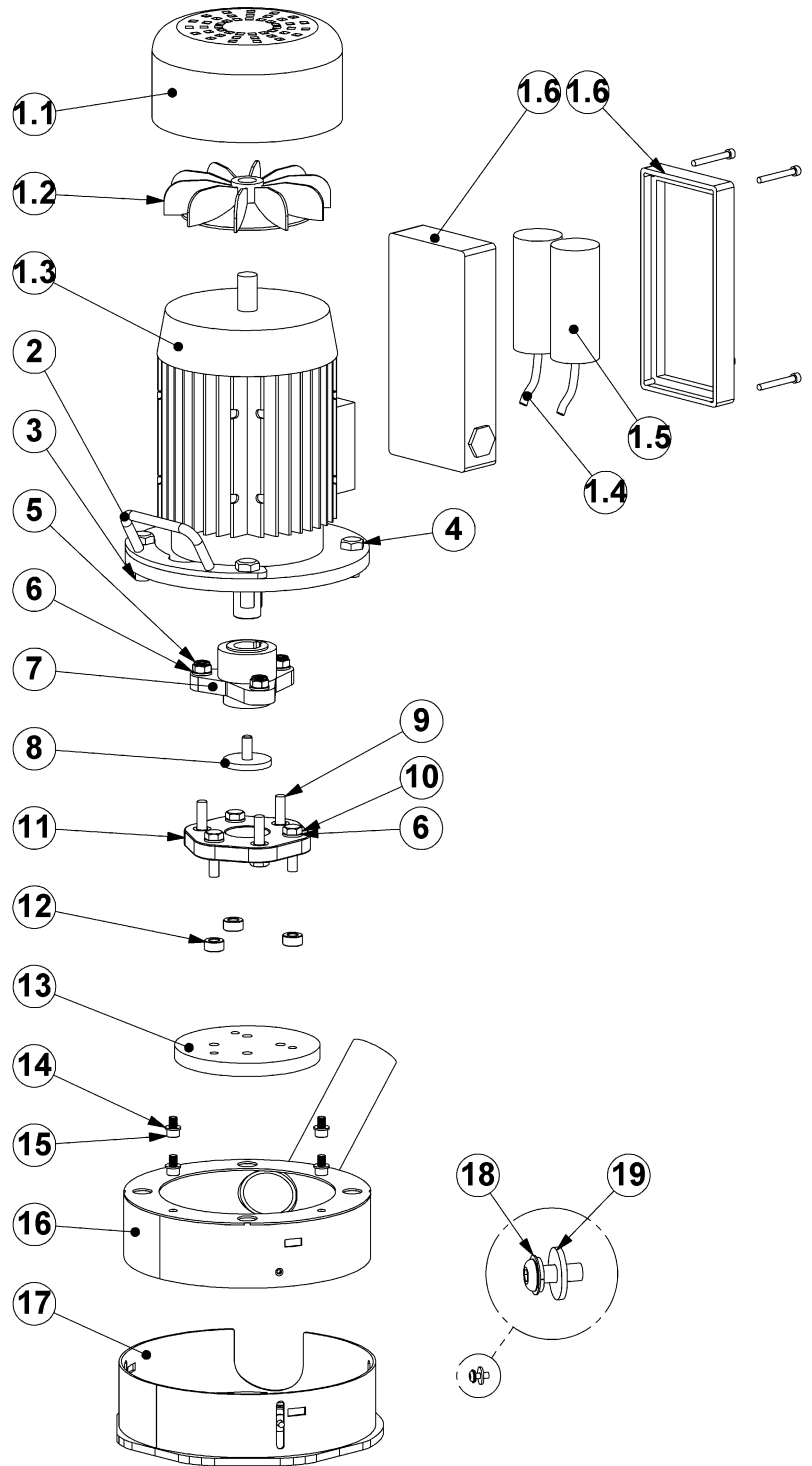
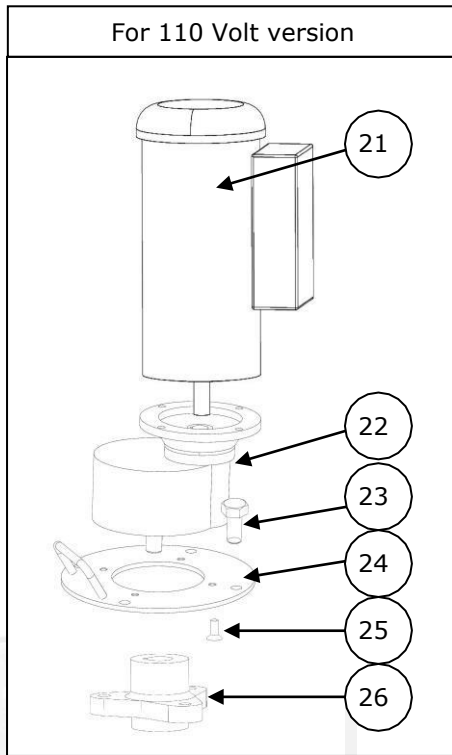




Fig. 02

Item	Blastrac PN	HQV PN	Description	Remarks	Qty.
1.1	E10354/2	534572901	Fan cover for Motor 230V/ 50 Hz		1
	E01525-IE2/1	534567401	Fan cover for motor 400V		1
1.2	E10354/3	534572001	Fan for motor 230V/ 50 Hz		1
	E10354/BL	534712101	Motor 230V/ 50 Hz		1
1.3	E01525-IE2/BL	534453301	Motor 400V		1
	E09590	534712801	Motor for speed Control version		1
1.4	E10354/4	534867301	Start-up Capacitor		1
1.5	E10354/5	534735601	Operating capacitor		1
1.6	E10354/1	534362701	Box for Capacitor		1
2	E11164	534666701	Lifting handle		1
3	M14x40	-	M10x40 Bolt	DIN 931	2
4	M14x30	-	M14x30 Bolt	DIN 931	2
5	M10 nut	-	M10 – Locking nut	DIN 985	3
6	BE0004	533268701	M10 Washer	DIN 125-1A	6
7	E10177	534413701	Coupling	Only for 230V	1
8	E03784	533458601	Washer		1
9	BE0398	534679301	M10x45 bolt		3
10	BE0010	535610201	M10x40 bolt	DIN 931	3
11	000118-2S	533076601	Flexible coupling		1
12	E03250	533349101	Spacer ring 10mm		3
13	DG05	535340901	Adapter diamond disc		1
14	BE0003	533808601	M8 Washer	DIN 125-1A	4
15	M8x12	-	M8x12 Hexagon socket head cap	DIN 912	4
16	E11156	533073301	Upper dust hood BGS-250		1
17	E11157	533071701	Lower dust hood BGS-250		1
18	BE0681	534459701	M6x16 Hex socket head button cap w flange		3
	BE0017	534691501	M6 spring lock washer		3
19	E03826	533613301	Nylon washer		3
20					
21	E04762	533995501	Motor 110V / 50Hz		1
22	E04594	533869101	Gearbox for E04762 (110V)		1
23		-	M14x30 Bolt + Washer + Springlock washer	DIN 931	4
24	E07294/BL	534263801	Adapter plate with handle (110V)		1
25	BE1083	534249301	3/8 - 16x3/4 Countersunk head screw		4
26	E10193	-	Coupling for gear box (110V)		1

Fig. 03

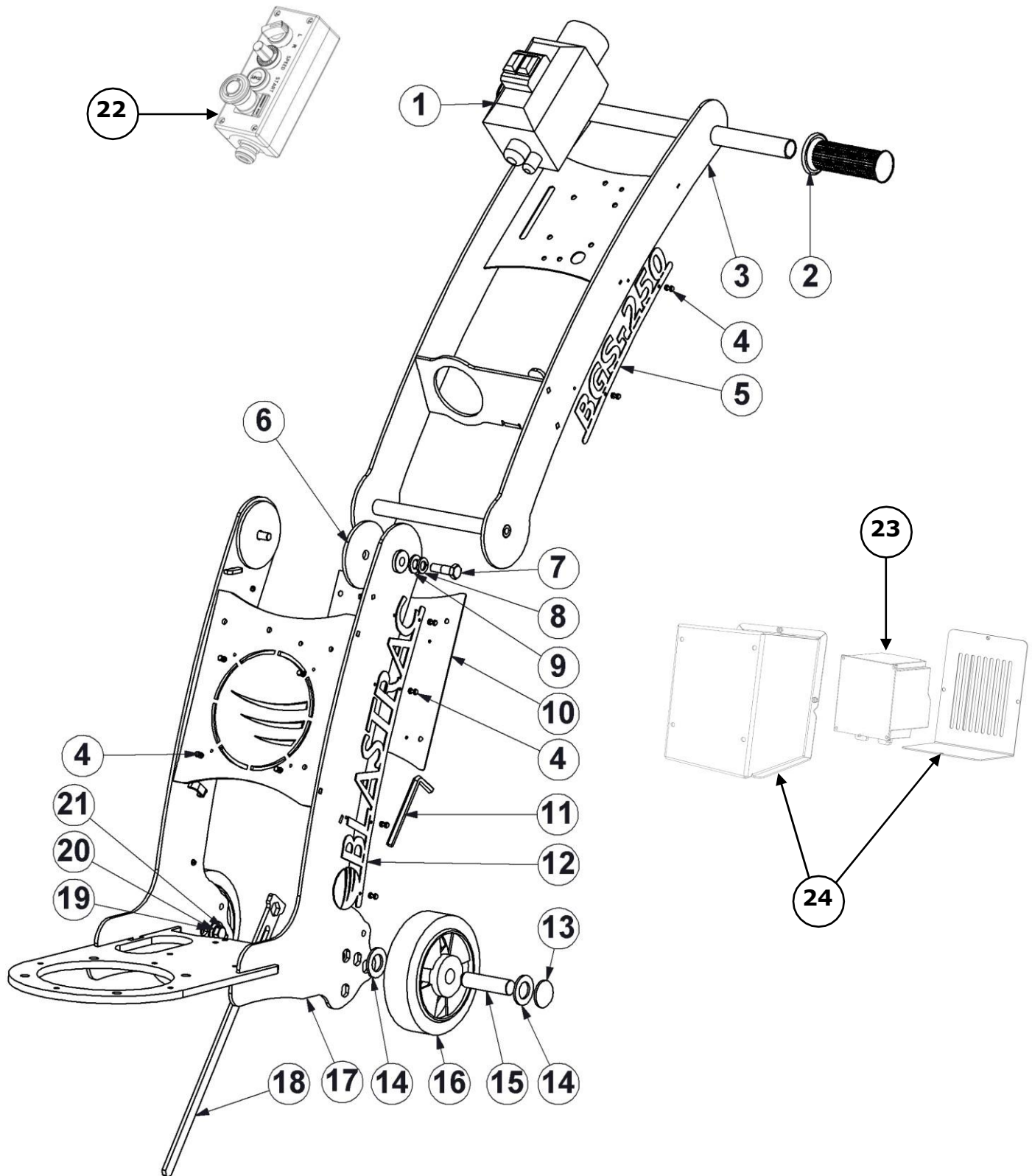
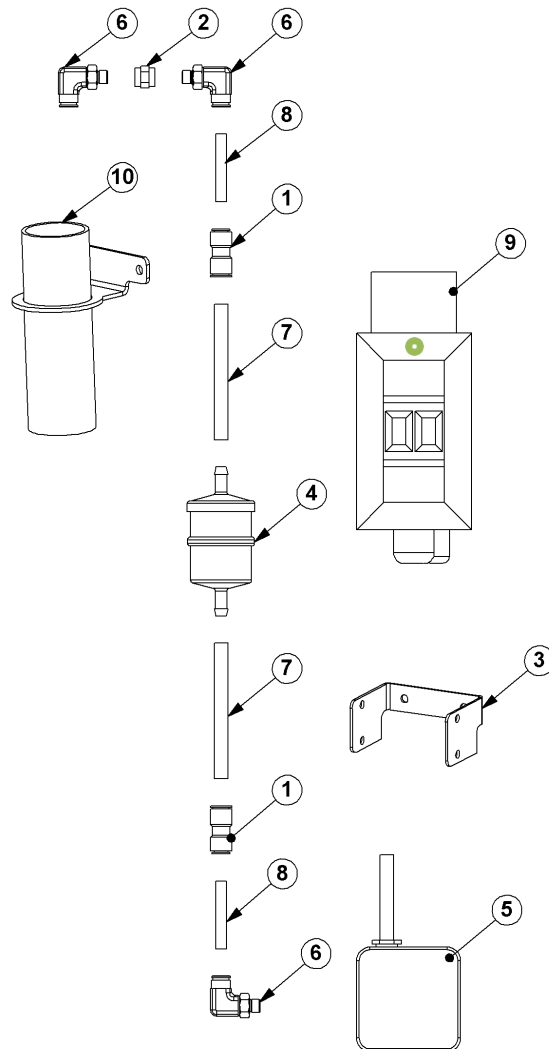




Fig. 03

Item	Blastrac PN	HQV PN	Description	Remarks	Qty.
1	E00587-1	533762101	Electro kit 230V / 50Hz		1
	E00587-1/AS	534881101	Switch-breaker and cable Asbestos 230V/50Hz		1
	E00587-1/AU	534500801	Switch-breaker and cable for Australia only		1
	E01532	533660201	Electro kit 110V / 50Hz		1
	E01532/AS	533660201	Electro kit 110V / 50Hz ASBESTOS		
	E03951	534549501	Electro kit 400V		1
2	453290	534612901	Handle grip		2
3	E11098	533064201	BGS-250 - handle		1
4	Rivet 3x8	-	Rivet 3x8		16
5	E11160_BL	534326501	BGS-250 logo blue		2
6	E11163	534515201	Distance plate		2
7	M10x35 (17,5)	-	M10x35 (17,5) Bolt	DIN 609	2
8	BE0027	533288701	M12 Spring lock washer	DIN 127 B	2
9	BE0026	533250701	M12 Washer	DIN 125-1A	2
10	E11101_BL	535083801	Background plate blue		1
11	001015	535752701	Allen key no.8		1
12	E11105	533076201	Blastrac logo blue		2
13	BE0097	533709901	Starlock ring		2
14	BE0096	534687301	M20 Washer	DIN 125-1A	4
15	E11128	533075201	Wheel shaft		2
16	E03603	533771201	Wheel		2
17	E11099	-	BGS-250 frame		1
18	E11162	533076701	Banning tool		1
19	M10 washer Ø30	-	M10 Washer Ø30	DIN 9021	2
20	M10 spring washer	-	M10 Spring washer	DIN 127 B	2
21	M10x30 bolt	-	M10x30 Bolt	DIN 933	2
22	E09387	534735501	Operating box complete for Speed Control		1
23	E09404	534587301	Frequency drive 2,2kW single phase		1
24	E10195	534819801	SC kit for BGS-250		1

Fig. 04

Item	Blastrac PN	HQV PN	Description	Remarks	Qty.
BGS-250A MKII					
1	E10479	534634001	Hose reduction 8 - 10mm		2
2	E09393	534242001	1/8 BSP nut high		1
3	E11159	535117901	Bracket - asbestos system device		1
4	E10318	534576901	Filter for under pressure meter		1
5	E09395	533017501	Under pressure meter		1
6	E06280	533266701	Water knee coupling		3
7	E00474	534056101	PU hose Ø 10x6,5mm		2
8	E06278 in E09392	533259501	PU hose Ø 8x5.5		2
9	E00587-1/AS E01532/AS	534881101 53366020	Switch-breaker and cable Asbestos 230V/50HzElectro kit 110V / 50Hz ASBESTOS	For 230V For 110V	1
10	E11158	534386501	Central connection		1
11	004583	533882601	PU Dust hose Ø51mm.	(not shown)	0.5m
1-11	E09665	534653301	Asbestos kit BGS-250A MKII		1
1-11	E09665/110	-	Asbestos kit BGS-250A MKII for 110V version		1



2. Electric schedules

Electric circuit diagram E00587-1

230V / 50Hz

0	1	2	3	4	5	6	7	8	9
PROJECT Client : BLASTRAC BV Name : E00587-1						Particulars:			
SUPPLIER Order number :						Supplier : BLASTRAC BV Contact : Telephone : +31 (0)30-6018866 Telefax : +31 (0)30-6018333 Email :			
DATA Arch.number : PJ07.03297T1CF Calc.number : Status : Certified Final									
Start of project : 4-7-2007 Latest change : 3-7-2008 (fkost@rman)						Highest page number : 12 Number of pages : 7			
2									
Revision page		Start	4-7-2007	BLASTRAC BV		Frontpage		Arch. PJ07.03297T1CF	
Eng.		Eng.	RJD	E00587-1		BLASTRAC		Draw. PJ07.03297T1CF	
Revision date		Print	3-7-2008					Pages	7
Revision doc.		Status	Certified final					Page	1
0	1	2	3	4	5	6	7	8	9
Wire color: Main-voltage: L1 -Black L2 -Black L3 -Black PE / PE -Yellow / Green					Symbol code explanation: DP 5 Q 1 Consecutive numbering Symbol letter Page number Group (in case used)				
Archive number explanation: PJ01.01234T1DR Status* Serial number Archive number					* Status DR: Draft FA: For approval CF: Certified final				
10									
Revision page		Start	4-7-2007	BLASTRAC BV		Explanations		Arch. PJ07.03297T1CF	
Eng.		Eng.	RJD	E00587-1		BLASTRAC		Draw. PJ07.03297T1CF	
Revision date		Print	3-7-2008					Pages	7
Revision doc.		Status	Certified final					Page	4

0	1	2	3	4	5	6	7	8	9
X0									
Internal connection	SO 1:1	SO 1:3	PE						
Bridges									
Terminal	L	N	PE						

Supply 220V

Revision page	Start	4-7-2007	BLASSTRAC BV	Plug X0	Archiv. P.007.03297T1CF Drawn. P.007.03297T1CF	-
Eng.	Eng.	01/10	ED0687-1			
Revision date	Print	3-7-2009				
Revision desc.	Subst.	Certified final				
					Pages	Page
					7	11

10



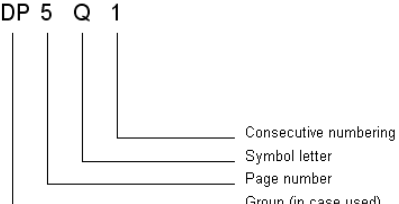
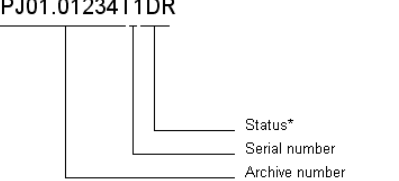
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Electric circuit diagram E03951

400V / 50Hz

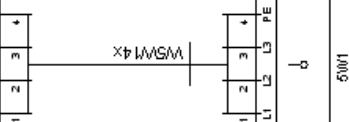
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Client	: BLASTRAC BV		
Name	: E03951		
SUPPLIER		Supplier : BLASTRAC BV	
Order number :		Contact :	
		Telephone : +31(0)30-6018866	
		Telefax : +31(0)30-6018333	
		Email :	
DATA			
Arch.number	: PJ07.03256T1CF		
Calc.number	:		
Status	: Certified Final		
Start of project	: 16-5-2007	Highest page number	: 12
Latest change	: 3-7-2008 (fkosterman)	Number of pages	: 6

Revision page	Client	16-5-2007	BLASTRAC BV		Frontpage	Arch. no.	PJ07.03256T1CF		
Eng.	Eng.	RJO	E03951		Draw. no.	PJ07.03256T1CF	Pages	6	Page
Revision date	Print	3-7-2008							
Revision desc.	Status	Certified final							

Wire color:		Symbol code explanation:	
Main-voltage:		DP 5 Q 1	
L1	-Black		
L2	-Black		
L3	-Black		
PE / PE	-Yellow / Green		
Archive number explanation:		PJ01.01234T1DR	
			
* Status		DR: Draft FA: For approval CF: Certified final	

Revision page	Client	16-5-2007	BLASTRAC BV		Explanations	Arch. no.	PJ07.03256T1CF		
Eng.	Eng.	RJO	E03951		Draw. no.	PJ07.03256T1CF	Pages	6	Page
Revision date	Print	3-7-2008							
Revision desc.	Status	Certified final							

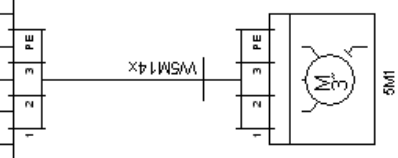


0	1	2	3	4	5	6	7	8	9
X0									
Internal connection	50 1:1	50 1:3	50 1:5	PE					
Bridges									
Terminal	L1	L2	L3	PE					
									
Supply 400V									
Revision page	Start	16-5-2007	BLASTRAC BV		Plug X0		Archiv.		PJ07.03256T1CF
Eng.	Eng.	GKU	ED3961				Drawn.		PJ07.03256T1CF
Revision date	Final	3-7-2008					Pages		6
Revision desc.	Status	Certified final					Page		11

10

12

0	1	2	3	4	5	6	7	8	9
X1									
Internal connection	01 06	05 11	05 15	PE					
Bridges									
Terminal	1	2	3	PE					



WSM14x

5M1

Motor

11	Revision page	Charl	16-5-2007	BLASTRAC BV	Terminal strip X1	Archiv.	PJ07.03256T1 CF	=	
	Eng.	Eng.	OKU	ED9851		Drawn.	PJ07.03256T1 CF	+	
	Revision date	Final	3-7-2008					Pages	6
	Revision doc.	Status	Certified final					Page	12



Electric circuit diagram E00587-1/AS

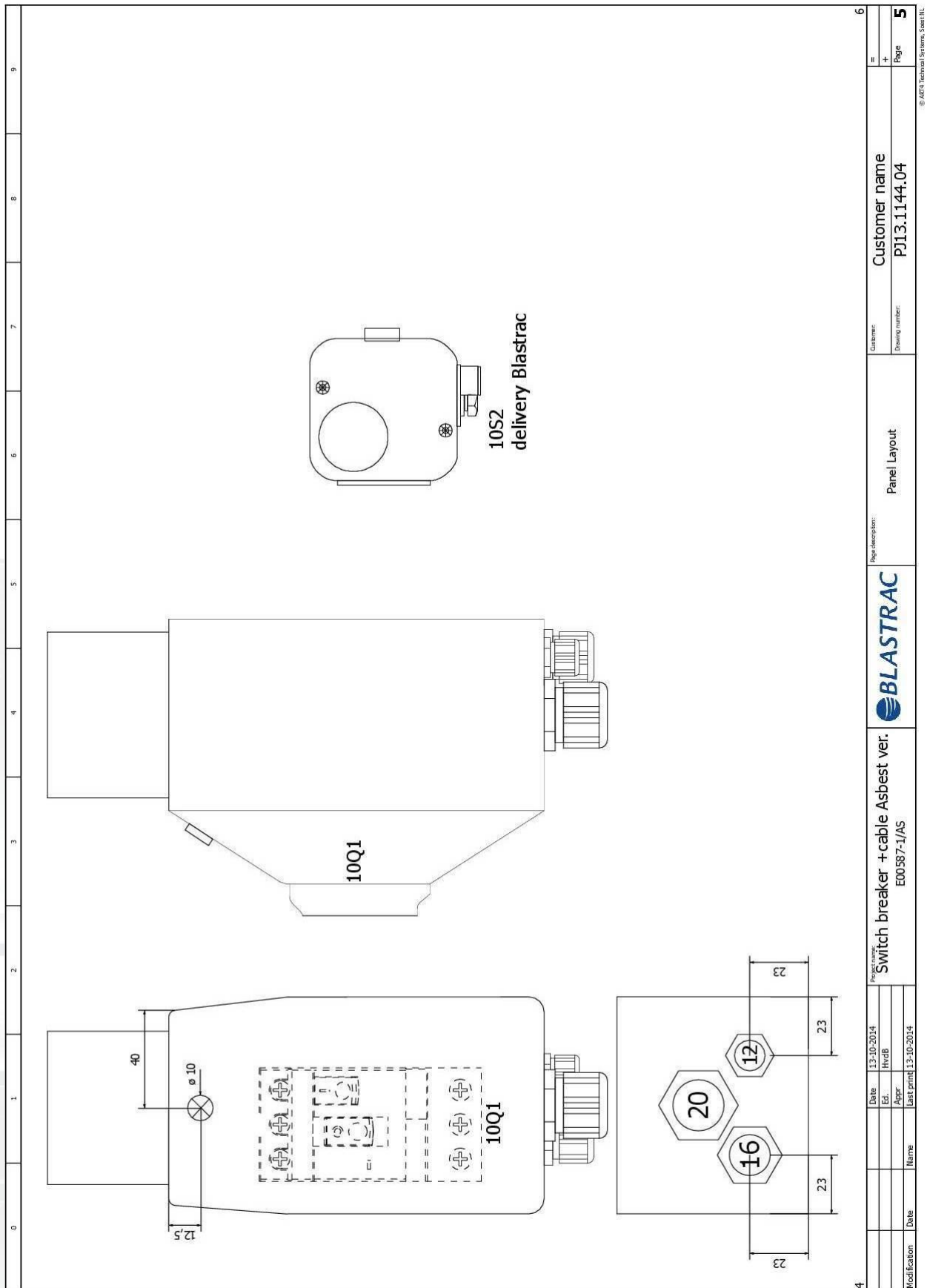
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<table style="width: 100%; border: none;"> <tr> <td style="width: 35%;">Project description</td> <td>Switch breaker +cable Asbest ver.</td> </tr> <tr> <td>Drawing number</td> <td>PJ13.1144.04</td> </tr> <tr> <td>Blastrac number</td> <td>E00587-1/AS</td> </tr> <tr> <td>Power supply</td> <td>230Vac</td> </tr> <tr> <td>Input lead</td> <td>Input lead</td> </tr> <tr> <td>Control Voltage</td> <td>230Vac</td> </tr> <tr> <td>Year of Manufacturing</td> <td>2014</td> </tr> <tr> <td>Remarks</td> <td>Released for production</td> </tr> </table>				Project description	Switch breaker +cable Asbest ver.	Drawing number	PJ13.1144.04	Blastrac number	E00587-1/AS	Power supply	230Vac	Input lead	Input lead	Control Voltage	230Vac	Year of Manufacturing	2014	Remarks	Released for production
Project description	Switch breaker +cable Asbest ver.																		
Drawing number	PJ13.1144.04																		
Blastrac number	E00587-1/AS																		
Power supply	230Vac																		
Input lead	Input lead																		
Control Voltage	230Vac																		
Year of Manufacturing	2014																		
Remarks	Released for production																		
Created on 22-8-2013 by hvandenbrink Edit date 13-10-2014 by HvdB		Number of pages 10																	

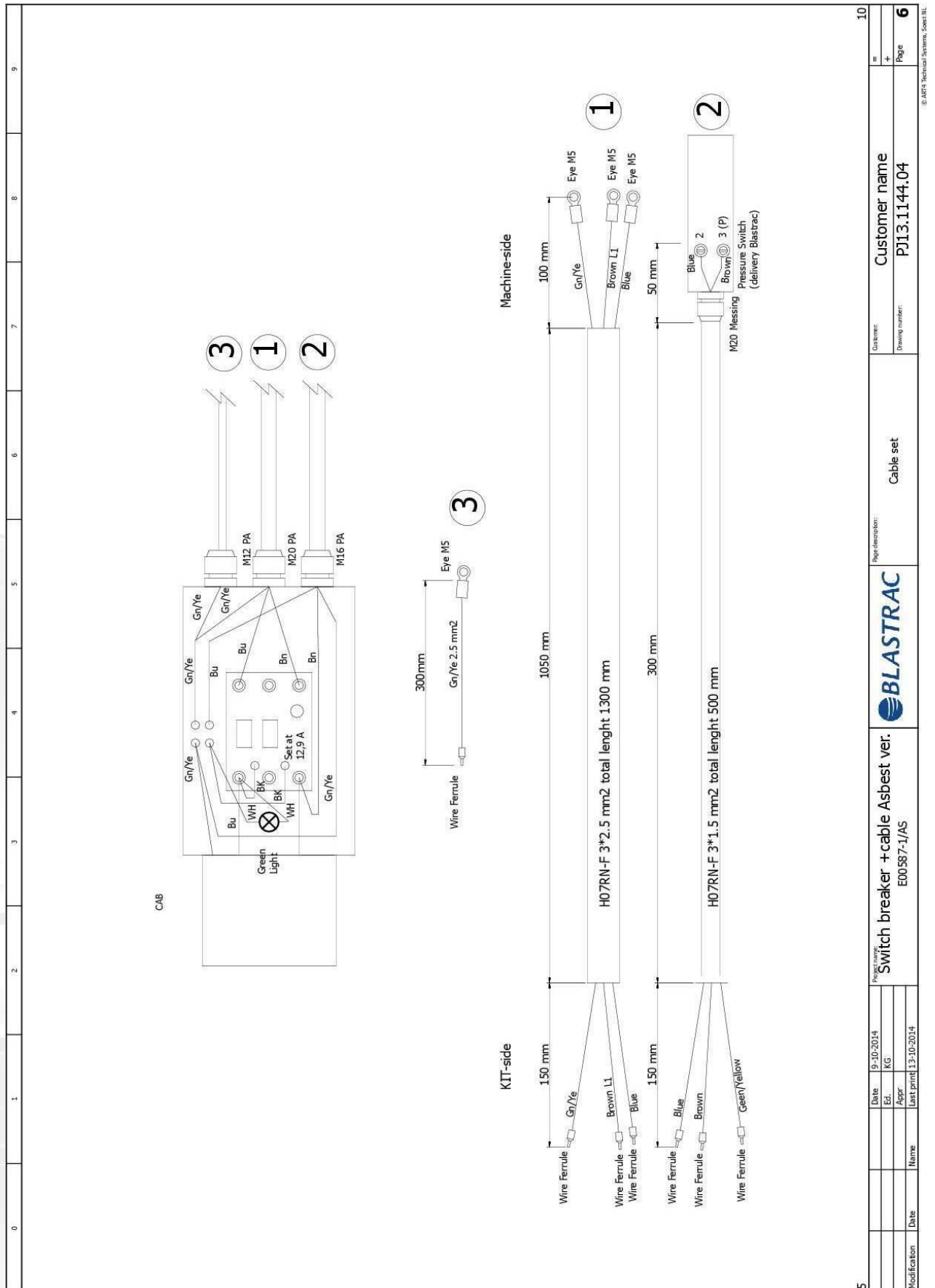
		Date 22-8-2013 Ed. HvdB Appr. Last print 13-10-2014	Project name Switch breaker +cable Asbest ver. E00587-1/AS		Page description Titelblad / voorblad	Customer Customer name Drawing number PJ13.1144.04	Page 1
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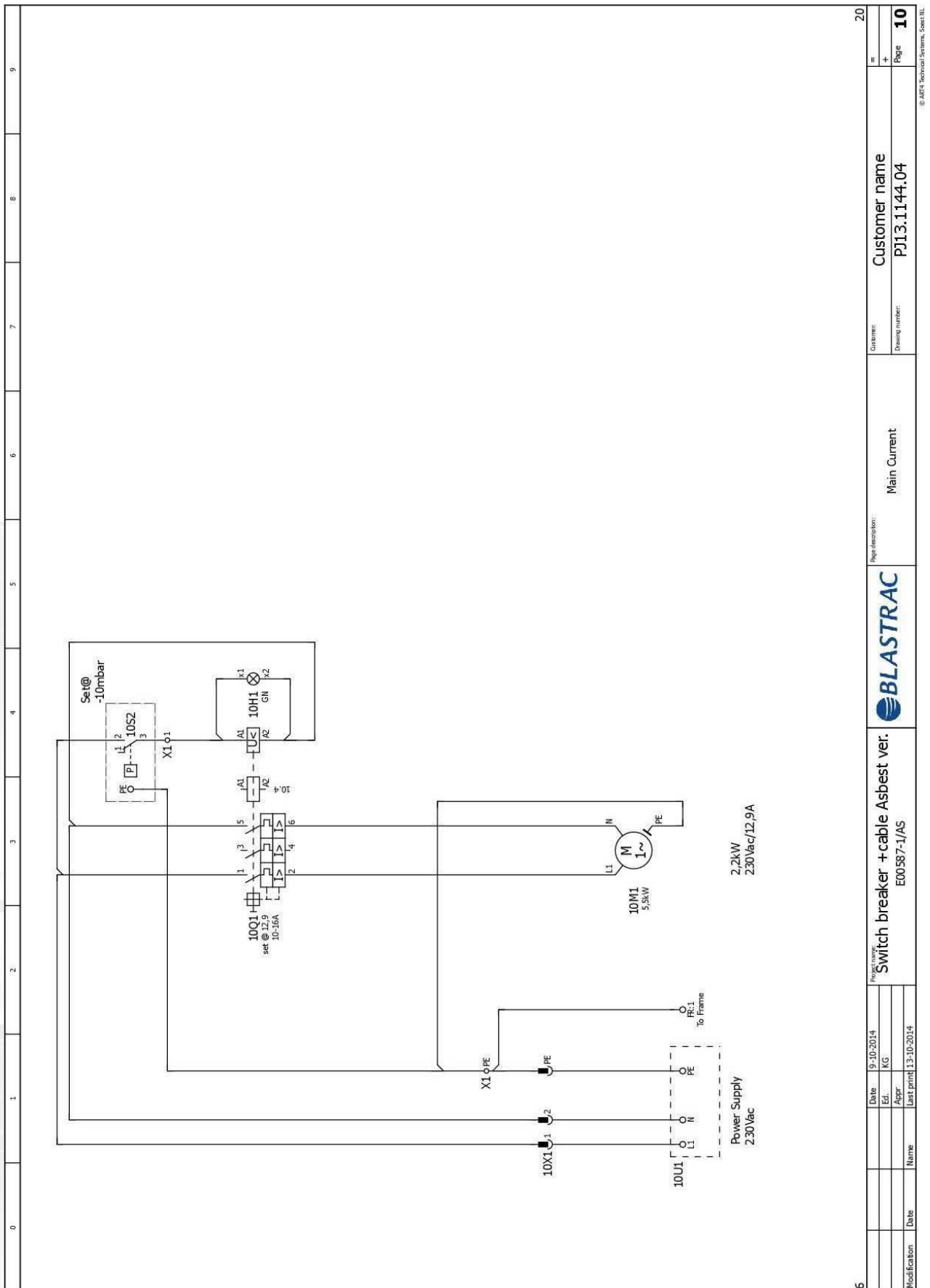
WIRE COLOR Main Voltage 400/230V <table style="width: 100%;"> <tr> <td style="width: 30%;"><u>Phase</u></td> <td><u>Colors</u></td> </tr> <tr> <td>L1</td> <td>- Brown</td> </tr> <tr> <td>L2</td> <td>- Black</td> </tr> <tr> <td>L3</td> <td>- Blue</td> </tr> <tr> <td>Earth / PE</td> <td>- Yellow/Green</td> </tr> </table>	<u>Phase</u>	<u>Colors</u>	L1	- Brown	L2	- Black	L3	- Blue	Earth / PE	- Yellow/Green	SYMBOL CODE 11 F 11 - Running number - Symbol letter - Schedule page CORE CODE 11 11 - Running number DRAWING NUMBER PJ##.####.## - Revision number - Archive number - Year
<u>Phase</u>	<u>Colors</u>										
L1	- Brown										
L2	- Black										
L3	- Blue										
Earth / PE	- Yellow/Green										

		Date 22-8-2013 Ed. HvdB Appr. Last print 13-10-2014	Project name Switch breaker +cable Asbest ver. E00587-1/AS		Page description Legend	Customer Customer name Drawing number PJ13.1144.04	Page 3
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0	1	2	3	4	5	6	7	8	9
	auxiliary contact	hulpcontact		signal light	signaallamp		Safety fuse	smeltveiligheid	
	Power contact	vermogenscontact		horn	hoorn		Fused switch, three-pole	schakelbare scheider	
	NO contact, opens with time delay	maakcontact, vertraagd open		apm meter	ampere-meter		Fused disconnect, three-pole	scheider "lagbak"	
	NO contact, closes with time delay	maakcontact, vertraagd sluitend		running hour counter	uren-teller		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	spoel		Circuit breaker, two-pole	installatieautomaat 2-polig	
	Pushbutton rebound	drukknop terugveerend		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	tp draaschakelaar		Contactor pulse coil	spoel puls		Valve	elektrisch bediende klep	
	Rotary switch locking	draaschakelaar		Tube light	TL verlichting		Resistor with movable contact	regelbare weerstand	
	Emergency stop rotary unlock	noodstop met draaibare vrijgave		Resistor / Heating	weerstand verwarming		Terminal	ringklem	
	Thermostatic switch	thermostaat hygrostaat		Socket	wandcontactdoos		Terminal with fuse	ringklem met zekering	
	Pressure switch	druckschakelaar		Current transformer	stroomtransformatie		Rectifier	gelijkrichter	
	Limit switch	eindschakelaar							
	Proximity switch	naderingsschakelaar							







0		1		2		3		4		5		6		7		8		9			
Plug diagram																					
function text Power Supply 230Vac = =		Strip designation 10X1																			
		Cable name		cable type		Target designation		device connection point		jumper		Plug designation		Connection point		Target designation		Connection point		Page / column	

230V - 50Hz

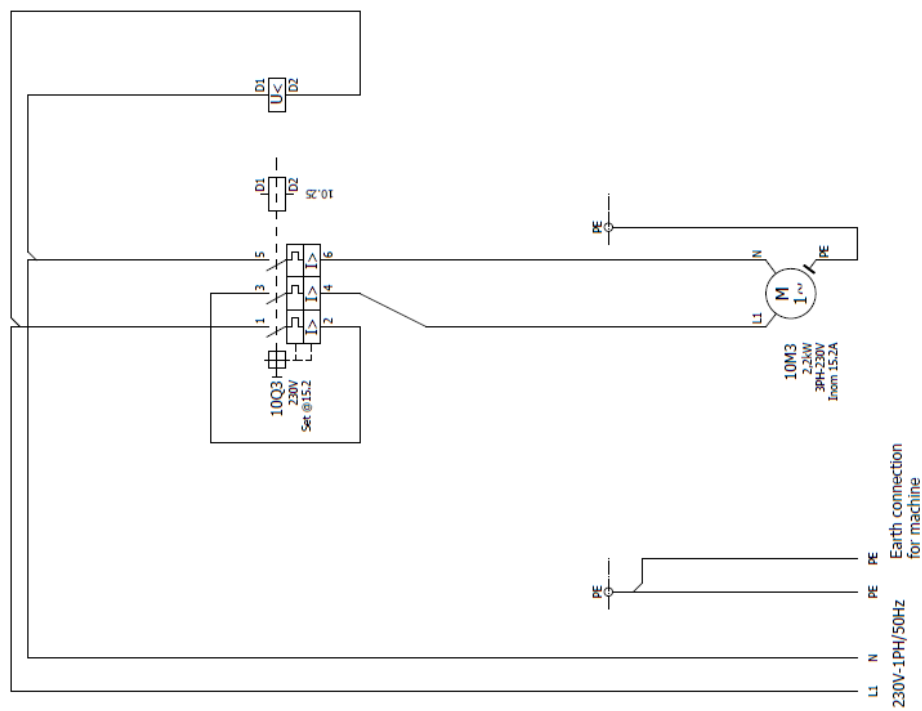


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Date	2-7-2015	 BLASTRAC		Blastrac BV	
Edi.	HvdB				
Appr.					
Date	2-7-2015	Front page / Cover sheet		Drawing number:	
Signature		E00587-1/AU		PJ15.1173.02.0	
				=	
				+	
				Page	
				1	



2.a							Page description: Panel Layout	Customer: Blastrac BV	= + Page 5





6			Date	3-7-2015	Project name	BMG-435-180EC AU		Page description Main Current	Customer	Blastrac BV	=	15	
			Est.	HuB						Drawing number	PJ15.1173.02.0	+	
			Appr										
Modification	Date	Name		Last print	3-7-2015						Page	10	



PARTS LIST

Device tag	Quantity	Designation	Type number	Brand	Blastrac PN	HQV PN
BOX	2	Cabel gland M20*1.5 PG11/13.5/16) brass, nickel-plated	WARTEL M20*1.5	Jacob	E00406	533977301
BOX	2	Cable gland nut M20*1.5 brass, nickel-plated	WARTELMOER M20*1.5	Jacob	E00406 1	-
BOX	1	Internal wire 2.5mm2 black, 90 degr.	30-309002501	Helukabel	E08137	-
BOX	2	Ozoflex neopreenkabel 3*2.5	H07RN-F3*25			-
BOX	20	Label for ader 12*12 Brady 7000pcs. pr	BPT-305-427	Brady	E07893	533947001
BOX	1	Cable gland M12*1.5 IP68 brass, nickel-plated	WARTEL M12*1.5	Jacob	E08359	-
BOX	1	Cable gland nut M12*1.5 brass,nickel-platedWARTELMOER M12*1.5		Jacob	E00404_1	-
BOX	1	Internal wire 2.5mm2 yelow/green, 90 degc	30-309002502	Helukabel	E08136	-
10Q3	1	Motor protection switch 13,0 18,0A	GV2-ME20	Schneider Electric	E00553	534720901
10Q3	1	vustslagknop rood tbv GV2-MC02	GV2-K031	Schneider Electric	DG25	534560601
10Q3	1	Opbouwkast IP55 tbv GV2	GV2-MC02	Schneider Electric	DG22	534879201
10Q3	1	Under voltage trip 220V-50Hz	GV-AU225	Schneider Electric	E05109	534914101



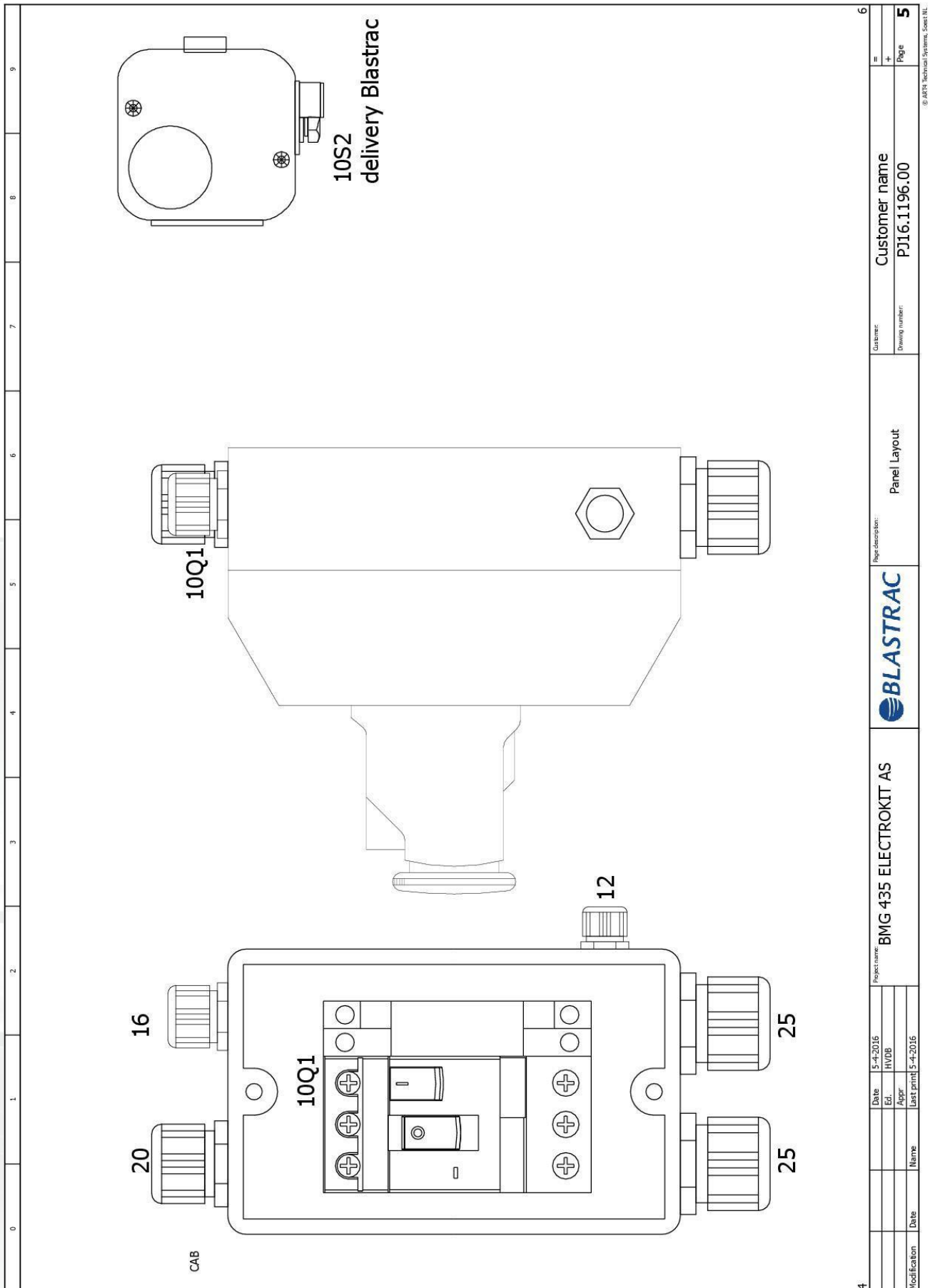
Electric circuit diagram E01532/AS 110V / 50 Hz

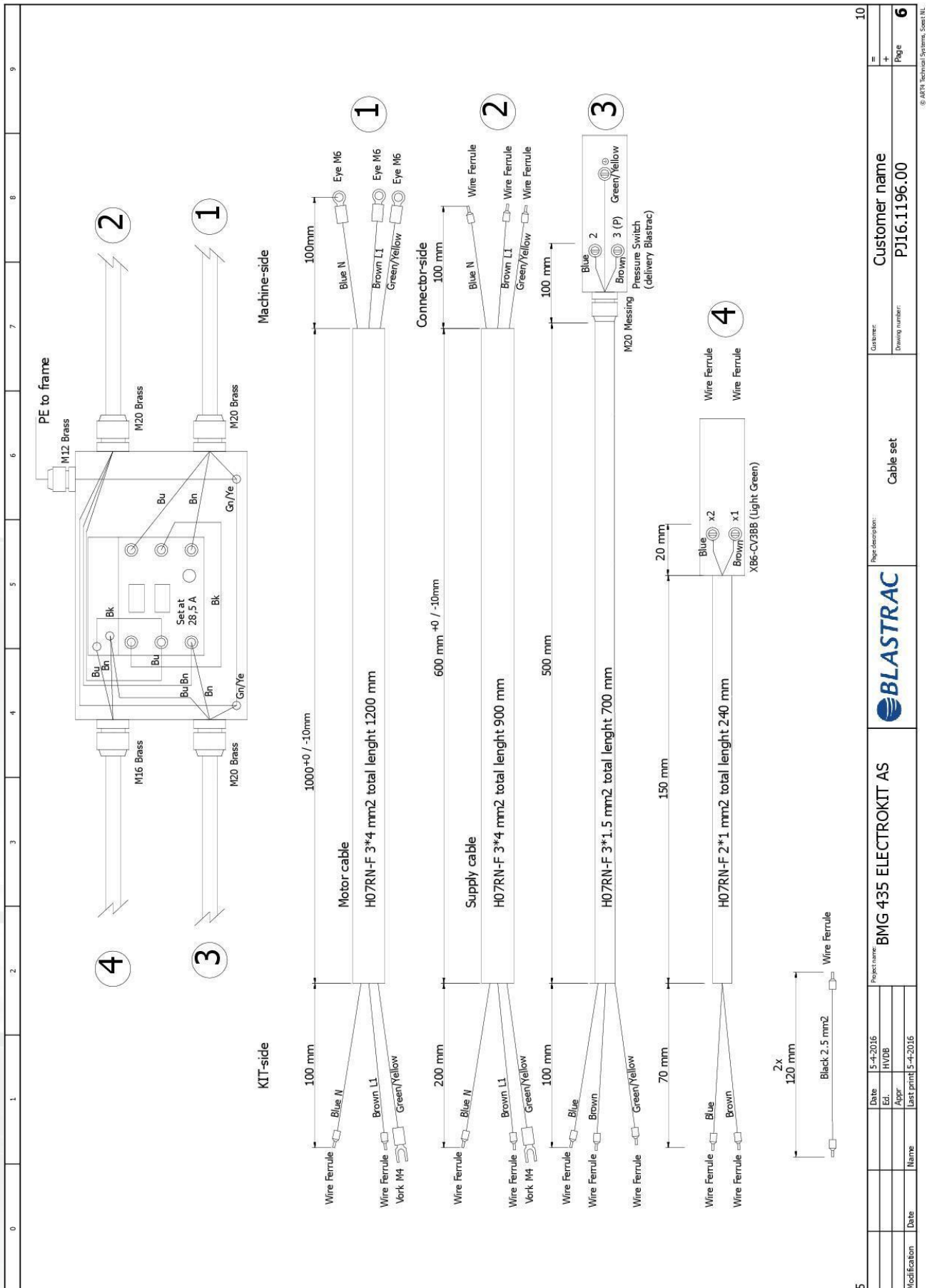
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Project description		BMG 435 ELECTROKIT AS	
Drawing number		PJ16.1196.00	
Blastrac number			
Power supply	110V 50Hz		
Input lead	Input lead		
Control Voltage	110V 50Hz		
Year of Manufacturing	2016		
Remarks	For approval		
Created on	5-4-2016	by	HvdB
Edit date	5-4-2016	by	HVDB
			Number of pages 9

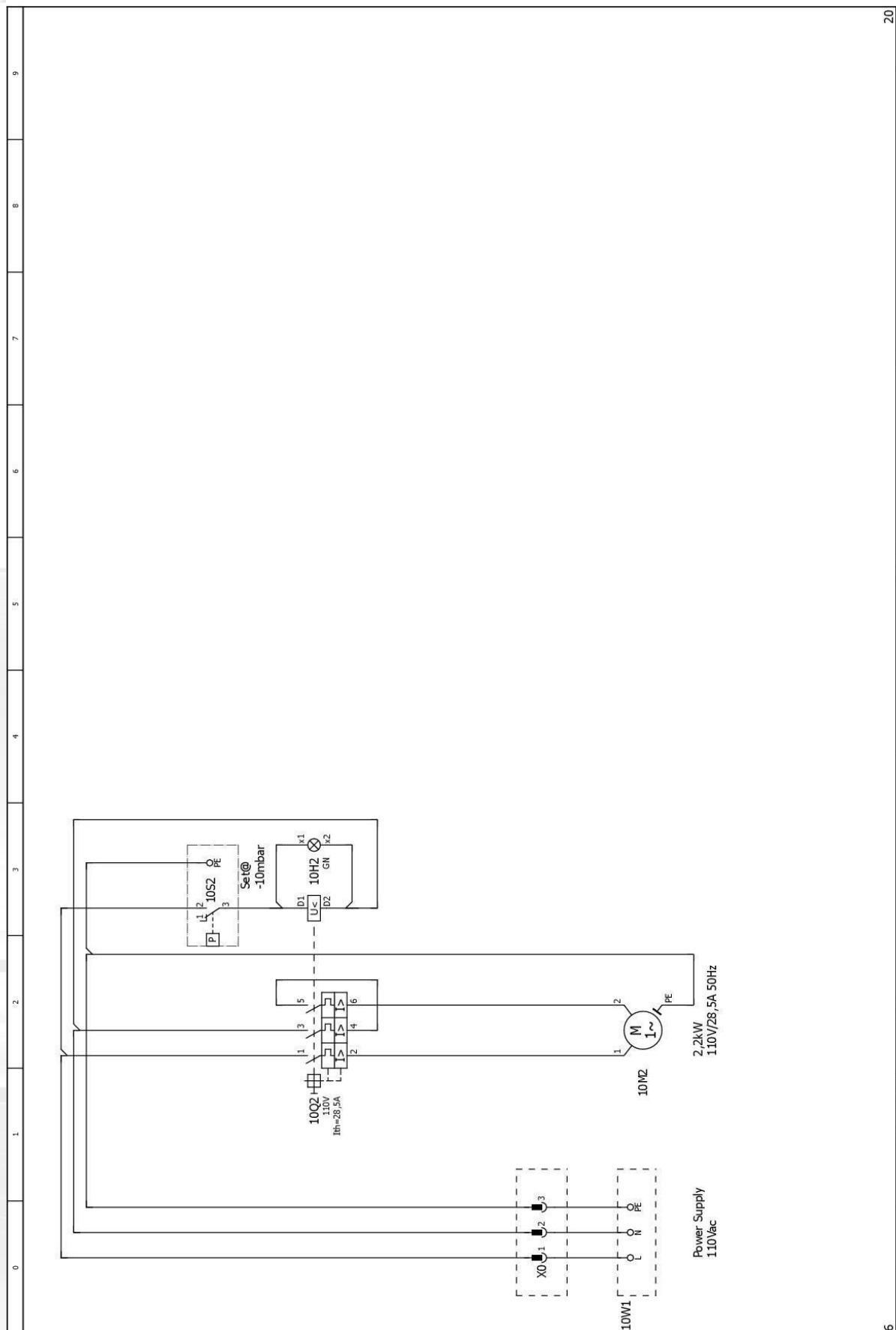
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Ed: HVDB						Drawing number: PJ16.1196.00		Page: 1	
Appr:									
Last print: 5-4-2016									

WIRE COLOR		SYMBOL CODE	
Main Voltage 110V		11 F 11	
Phase	Colors		
L1	- Brown		
N	- Blue		
Earth / PE	- Yellow/Green		
CORE CODE		11 11	
DRAWING NUMBER		PJ##.####.##	

Date: 5-4-2016		Project name: BMG 435 ELECTROKIT AS		Page description: Legend		Customer: Customer name		Page: 4	
Ed: HVDB						Drawing number: PJ16.1196.00		Page: 3	
Appr:									
Last print: 5-4-2016									





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