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14.10.16

Manual

GRIMAX

GRIMAXBelt Grinding Machines 50 - 75 - 100 - 150







EU declaration of conformity



Industrivej 3-9 DK-9460 Brovst, Danmark

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hereby declares that

GRIMAX Belt Grinding Machine

is manufactured in accordance with the provisions of:

 Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC (recast). Short title: Machinery Directive.

Also on accordance with:

- Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits (recast). Short title: 'Low Voltage (LVD) Directive'.
- **Directive 2014/30/EU** of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility (recast). Short name: 'Electromagnetic Compatibility (EMC) Directive'.

DK 9460 Brovst
Claus Nielsen,
Producent

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1. Transport & Handling

1.1 Transport

The GRIMAX belt grinding machine is packed in protective wrapping and delivered on a pallet with the following measures: 120 x 80 x 120 cm

1.2 Handling

The machine can easily be transported on the pallet on which it is delivered.

1.3 Placing

Mounting of the belt grinder must take place on a firm and level ground. The machine must be fastened to the ground by means of the four fittings which are used to fasten the belt grinder to the pallet.

The machine is provided with no-volt release protection switch and connected for the wanted voltage (V). The electrical connection must be performed by an authorized electrician, and it is important to control that the motor (and ventilator) has the correct direction or rotation (please see the arrow on the motor).

Eye shields, suction hose and perhaps dust bag must be mounted before use. The clamps for mounting the suction hose are placed in the dust bag. The eye shields (A) must be mounted into the eye shield fitting (see *fig.: 1.1*).

The tool rest (B) must be mounted at a distance of minimum 2 mm from the belt, and the handle (C) must be fastened. Turn the contact wheel by your hand and adjust the belt by means of the handle (D) until it runs just on the contact wheel (E). It must be controlled that the spark box (F) is properly fastened. The wanted working height is adjusted by means of the (G).

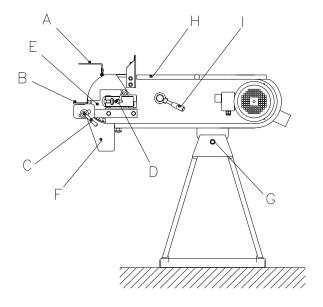


Fig.: 1.1

2. Directions

2.1 Operation

After adjustment and connection the belt grinding machine is ready for use. The grinding can take place by the contact wheel (E) or on the surface grinding table by opening the cover (H). The lifetime of a new belt is prolonged if the grinding starts with a light pressure.

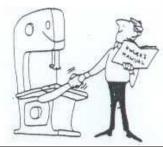
2.2 Safety rules for stationary power tools.

Follow them to achieve best results and full benefit from your new machine.

The good craftsman respects the tools with which he works. He knows they represent years of constantly improved design. He also knows that they are dangerous if misused. This is the theme of a new safeuse program for stationary power tools. The safety rules are based on approved practices in industrial and home shops



1. Know your power tool. Read the owner's manual carefully. Learn its applications and limitations, as well as the specific potential hazards peculiar to this tool.



2. Keep guard in place and in working order.



3. Ground all tools. If tool is equipped with three-prong plug, it should be plugged into a three-hole electrical receptacle. If an adapter is used to

accomodate a twoprong receptacle, the adapter wire must be attached to a known ground. Never remove the third prong.



4. Remove adjusting keys and wrenches. Form habit of checking to see that keys and adjusting wrenches is removed before turning it on.



5. Cluttered areas and benches invite accidents.



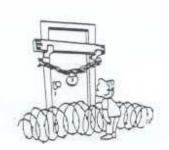
6. Avoid dangerous environment. Don't use power tools in damp or wet locations or expose them to rain. Keep your work area well lighted.



6. Keep children away. All visitors should be kept in a safe distance from work area.



8. Make workshop kidproof with padlocks, master switches, or by removing starter keys.



9. Don't force tool. It will do the job better and be safer at the rate for which it was designed.



10. Use right tool. Don't force tool or attachment to do a job it was not designed for.



11. Wear proper apparel. Wear no loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.



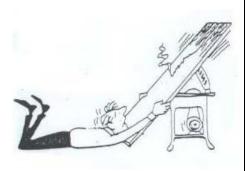
12. Always use safety glasses. Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses. They are **NOT** safety glasses.



13. Secure works. Use clamps or vise to hold works, when pratical. It's safer than using your hands and it frees both hands to operate tool.



14. Don't overreach. Keep proper footing and balance at all times.



15. Maintain tools with care. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.



16. Disconnect tools before servicing and when changing accessories such as grinding wheels, polishing mops, grinding belts, blades, bits, cutters, etc.



17. Reduce the risk of unintentional starting. Make sure switch is in off position before plugging in.



18. Use recommended accessories. Consult owner's manual for recommended accessories. Use of improper accessories may cause risk of injury to persons.

2.3 Maintenance

Empty the spark box with regular intervals and control if the suction canals need a cleaning. The dust bag has to be emptied after use. The contact wheel should be replaced when the edges have been worn round or the tyre has been damaged. The graphite pad on the surface grinding table is changed as required.

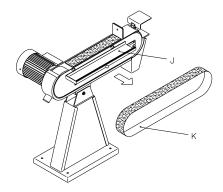


Fig.: 2.2

When changing the belt it is released by turning the handle (I) in anti-clock-wise direction (see *fig.: 2.1*), the cover (J) is opened and the worn-down belt (K) is removed by driving the belt against the direction of rotation, and the belt is removed from the machine by the drive wheel. The new belt is fitted. It must be checked that the direction of the arrows on the back side of the belt correpsond to the direction of rotation. Fasten the handle (I) again and bring it into alignment with the handle (D).

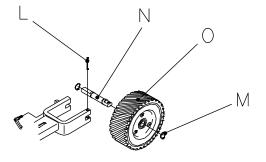


Fig.: 2.3

To change the contact wheel remove the grinding belt, tool rest and spark arrester. Use a 6 mm mandel to hammer out the pin (L). Now the contact wheel with axle and bearings can be taken out. One of the lock rings (M) and the axle (N) can be taken out. The new contact wheel (O) is fitted in in reverse order.

3. Spare Parts List

3.1 Drawing of Belt Grinding Machine without Exhaust system

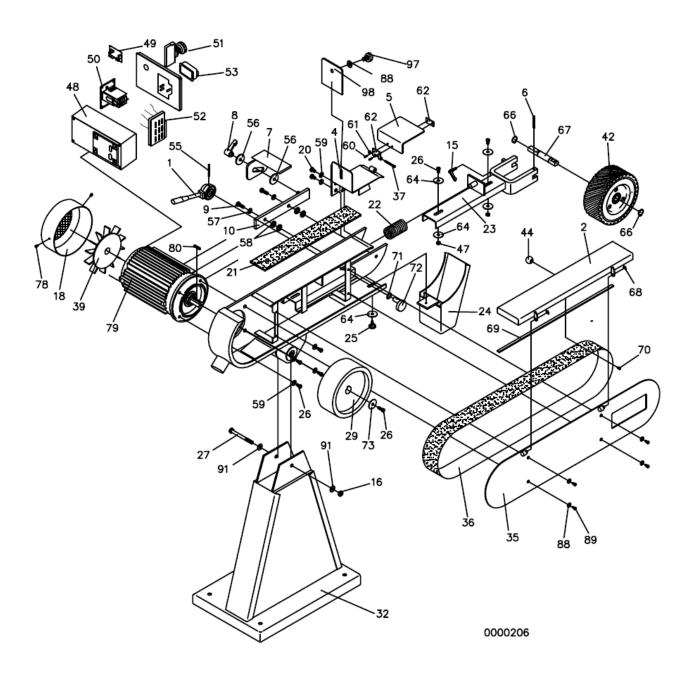


Fig.: 3.1

3.2 Spare Parts List for Belt Grinding Machine without Exhaust System

When ordering spare parts please state machine type and serial number together with item number and description of the part according to this list.

1 Belt Release Handle 0102267 0102267 010 2 Belt guard 1055931 0239202 023 4 Grinding stop / Cover Blue 1055636 0880002 455 5 Eye shield 0233605 0233605 023 6 Split pin ø6x50 mm 0233050 0233050 023 7 Tool rest 1055634 0233207 023 8 Handle for tool rest 0233808 0233808 023 9 Bolt M10x25 0300134 0300134 030134 030 10 Support for tool rest 0239373 0239373 023 023 15 Handle M6x25 0233025 0233025 023 023 18 Fan cover for motor 2031017 - - 20 Screw M8x12 0300144 0300144 030 21 Graphite pad 0233022 0233221 023 22 Spring 5,5x43x125x11 mm 0102265 0102265	0-2000 02267 39302 32342 33705 33050 33307 33808 00134 39373 33025 - 00144 33321 02265 10323 01324 33806 33020 67832 -	150-2000 0102267 0239502 4532344 0233705 0233050 0233507 0233808 0300134 0239373 0233025 - 0300144 0233521 0102265 0110523 0101524 0233806 0233020 4567832
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23 Cradle for contact wheel 1055629 0110223 017 24 Spark arrester 1055638 0101224 010 25 Star Handle Ø32 M6x16 0233806 0233806 023 26 Screw M8x20 0233020 0233020 023 27 Bolt M12x100 4567832 4567832 456 29 Drive wheel 5020024 -	10323 01324 33806 33020 67832 - 39832	0110523 0101524 0233806 0233020 4567832
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26 Screw M8x20 0233020 0233020 0233020 27 Bolt M12x100 4567832 4567832 456 29 Drive wheel 5020024 -	33020 67832 - 39832	0233020 4567832
27 Bolt M12x100 4567832 4567832 4567832 29 Drive wheel 5020024 -	67832 - 39832	4567832
29 Drive wheel 5020024 -	39832	
		_
■ 07 1D45E WILLIOU EXTRAUST SYSTEM 1 UZ3M037 UZ3M037 UZ3		0239832
	49081	6549081
36 Grinding belt	-	-
	50614	0950614
39 Fan wheel for motor 0995704 -	-	-
	35004	1535007
	31662	0331662
47 Lock nut M8 0928644 0928644 092	28644	0928644
48 Switch comp	-	_
49 Brake Module (Additional) 0188845 0188845 018	88845	0188845
50 Thermo relay	-	-
	88892	0188892
52 Relay w/0-volt retease coil	-	-
	88893	0188893
	02266	0102266
	60327	0860327
	01491	0101491
	23212	2323212
	37850	5437850
	00425	0100425
	51406	0951406
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	10981	6540981
	11262	0311262
	33351 15720	0233551 0915720
	55860	1055860
	30612	0930612
	02268	0102268
	52262	0752262
	10981	6540981
	37620	0737620
79 Motor 2030038 -	-	-
80 Parallel key 0110071 -	-	-
	37631	0737631
	10089	0110089
	05167	0105167
	33807	0233807
	55681	1055682

3.3 Drawing for Belt Grinding Machine with Exhaust System

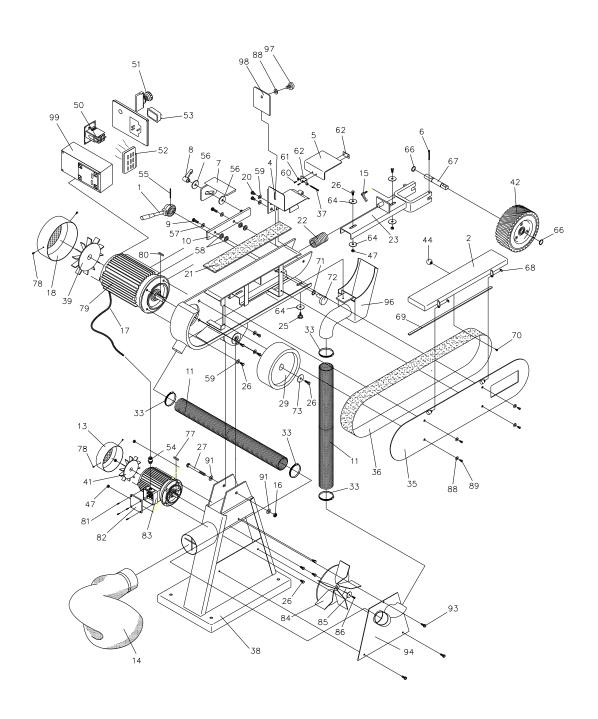


Fig.: 3.2

3.4 Spare parts List for Belt Grinding Machine with Exhaust System

When ordering spare parts please state machine type and serial number together with item number and description of the part according to this list.

		Part Number						
Item No.	Description	75X-2000	75X-2000	100X-2000	150X-2000			
1	Belt release handle	0102267	0102267	0102267	0102267			
2	Belt quard	1055931	0239202	0239302	0239502			
4	Grinding stop/Cover Blue	1055636	0880002	4532342	4532344			
5	Eye shield	0233605	0233605	0233705	0233705			
6	Split pin ø6x50 mm	0233050	0233050	0233050	0233050			
7	Tool rest	1055634	0233207	0233307	0233507			
8	Handle for tool rest	0233808	0233808	0233808	0233808			
9	Screw M10x25	0300134	0300134	0300134	0300134			
10	Support for tool rest	0104373	0104373	0104373	0104373			
11 13	Suction hose ø63 Fan cover for exhaust motor	7891011	7891011	7891011	7891011			
14	Dust bag	2075180	2075180 0811793	2075180 0811793	2075180			
15	Handle M6x25	0811793 0233025	0233025	0233025	0811793 0233025			
16	Lock nut M12	0105166	0105166	0105166	0105166			
17	Cable	0963084	0963084	0963084	0963084			
18	Fan cover for motor	2031017	-	-	-			
20	Screw M8x12	0300144	0300144	0300144	0300144			
21	Graphite pad	0233022	0233221	0233321	0233521			
22	Spring 5,5x43x125x11 mm	0102265	0102265	0102265	0102265			
23	Fork for contact wheel	1055629	0101224	0101324	0101524			
25	Star handle Ø32 M6x16	0233806	0233806	0233806	0233806			
26	Screw M8x20	0233020	0233020	0233020	0233020			
27 29	Bolt M12x100 Drive wheel	4567832 5020024	4567832	4567832 -	4567832 -			
33	Hose strap 58-75 mm	0233058	0233058	0233058	0233058			
35	Side plate for GRIMAX	6549081	6549081	6549081	6549081			
36	Grinding belt	-	-	-	-			
37	Screw M6x45 CH	0950614	0950614	0950614	0950614			
38	Dust extractor	0239853	0239853	0239853	0239853			
39	Fan wheel for motor	-	-	-	-			
41	Fan wheel for exhaust motor	2031015	2031015	2031015	2031015			
42	Contact wheel with ball bearings	1535005	1535005	1535004	1535007			
44	Ball handle M6xØ25	0331662	0331662	0331662	0331662			
47	Lock nut M8	0928644	0928644	0928644	0928644			
50 51	Thermo relay	0188892	0188892	0188892	0188892			
52	Emergency stop comp. Relay w/0-volt retease coil	0100092	0100092	0100092	0100092			
53	Start/stop protection	0188893	0188893	0188893	0188893			
55	Split pin Ø4x50 mm	3454351	3454351	3454351	3454351			
56	Disc 10x45x4	0860327	0860327	0860327	0860327			
57	Disc 10mm	0101491	0101491	0101491	0101491			
58	Disc 10mm	2323212	2323212	2323212	2323212			
59	Disc 8mm	5437850	5437850	5437850	5437850			
60	Screw M4x8	0100425	0100425	0100425	0100425			
61	Lock nut M6	0951406	0951406	0951406	0951406			
62	Hinge mounting for eye shields	0921475	0921475	0921475	0921475			
64 66	Disc 8mm Lock ring Ø20	6540981 0311262	6540981 0311262	6540981 0311262	6540981 0311262			
67	Shaft	0233051	0311262	0311262	0311262			
68	Lock ring Ø7	0233031	0233231	0233331	0233331			
69	Rubber strip 657 mm	1055860	1055860	1055860	1055860			
70	Screw M6x12	0930612	0930612	0930612	0930612			
71	Wave spring 14x0.3x21	0102268	0102268	0102268	0102268			
72	Eccentric for 8 mm motor sheet	0752262	0752262	0752262	0752262			
73	Disc 8mm	6540981	6540981	6540981	6540981			
77	Parallel key 36x6x6	0110077	0110077	0110077	0110077			
78	Screw M4x5	0737620	0737620	0737620	0737620			
79	Motor	2030038	-	-	-			
80 81	Parallel key Screw M4x12	0110071 0737610	0737610	0737610	0737610			
82	Cover for terminal box	0110082	0110082	0110082	0110082			
83	Exhaust motor 0.5HP	2030040	2030040	2030040	2030040			
84	Fan wheel large 250 mm	0995704	0995704	0995704	0995704			
85	Disc 5mm	0233030	0233030	0233030	0233030			
86	Screw M5x30	0331786	0331786	0331786	0331786			
88	Disc 6mm	0737631	0737631	0737631	0737631			
89	Screw M6x10	0110089	0110089	0110089	0110089			
91	Disc 12mm	0105167	0105167	0105167	0105167			

93	Screw Taptite M6x16	0910616	0910616	0910616	0910616
94	Side plate for base	0239128	0239128	0239128	0239128
96	Spark box with exhaust system	1055643	0239252	0239352	0239552
97	Star M6	0233807	0233807	0233807	0233807
98	Rest for surface grinding	1055679	1055680	1055681	1055682
99	Switch comp.	-	-	-	-

4. Technical Data

4.1 Technical Specifications

Model	50/50X	75/75X	100/100X	150/150X
Grinding belt	50x2000	75x2000	100x2000	150x2000
Motor 3x380-440 V 50 Hz *	3,6 HK	4,1 HK 4,8 HK	4,8 HK	4,8 HK *
Class	IEC 34-1	IEC 34-1	IEC 34-1	IEC 34-1
IP Class	54	54	54	54
R/min.	2800	2800	2800	2800
Amp	10.6/6.1	10.6/6.1	10.6/6.1	10.6/6.1
Cos	0,91	0,91	0,91	0,91
Belt speed (m/s)	30/34	30	30	30
Contact wheel	Ø200x50	Ø200x75	Ø200x100	Ø200x150
Grinding surface	540 mm	540 mm	540 mm	540 mm
Fan motor (only X-model)	0,5 HK	0,5 HK	0,5 HK	0,5 HK
Weight without fan/with fan	85 kg/111 kg	85 kg /111 kg	90 kg/ 116 kg	114 kg /140 kg

^{* 5,5} HP motor available.

4.2 Dimensions

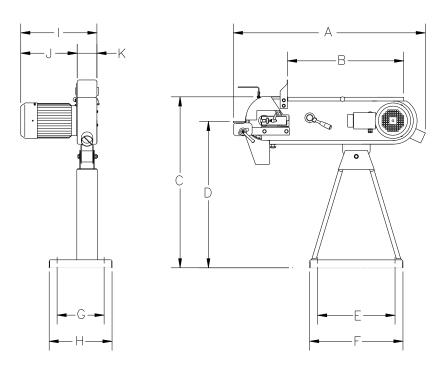


Fig.: 4.2

M	odel	Α	В	С	D	Е	F	G	Н	- 1	J	K
;	50	995	660	890	780-1070	420	506	255	341	392	306	86
	75	995	660	890	780-1070	420	506	255	341	413	306	107
1	100	995	660	890	780-1070	420	506	255	341	439	306	133
_ 1	150	995	660	890	780-1070	420	506	255	341	491	306	185

4.3 Circuit diagrams

Belt grinding machines can be connected to $3 \times 400/440 \text{ V}$, 50/60 cycles and to $3 \times 230 \text{ V}$ 50/60 cycles. There are the following kinds of circuit diagrams:

- One velocity grinder without brakes see Fig. 4.3.1 and 4.3.2
- One velocity grinder with brakes see Fig. 4.3.3 and 4.3.4
- Two velocity grinder with no brakes see Fig. 4.3.5 and 4.3.6

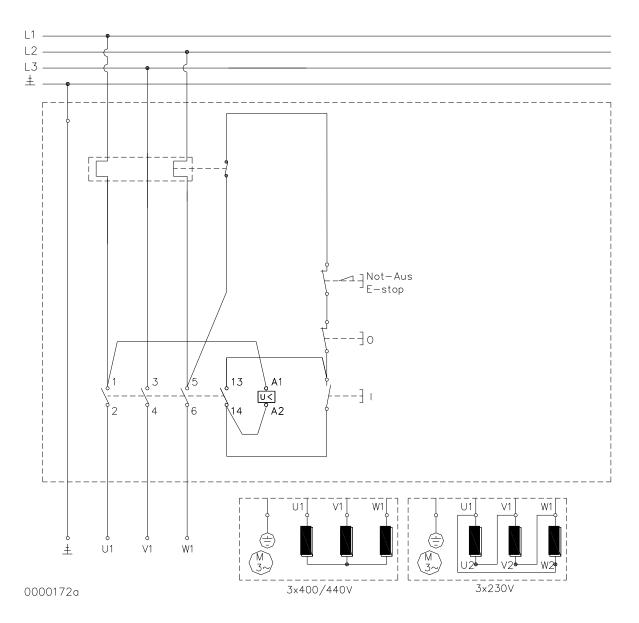


Fig. 4.3.1.: Diagram of belt grinder with no exhaustmotor.

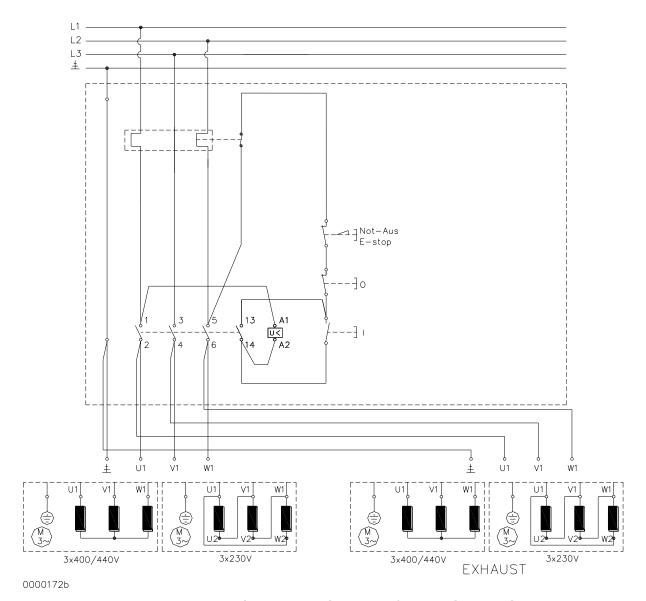


Fig. 4.3.2.: Diagram of belt grinder with exhaustmotor.

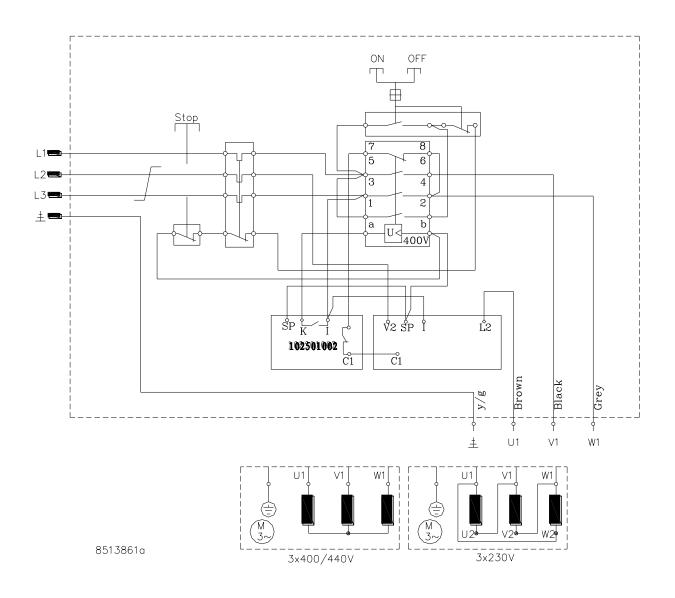


Fig.: 4.3.3 Diagram of belt grinder with brake and no exhaustmotor.

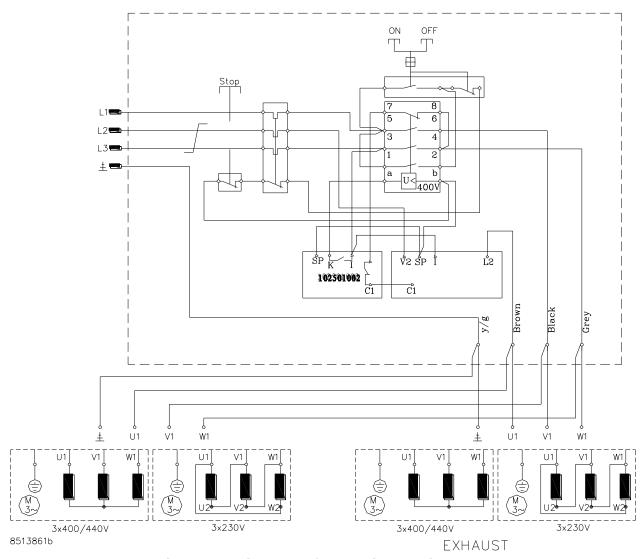


Fig.: 4.3.4 Diagram of belt grinder with brake and exhaustmotor.

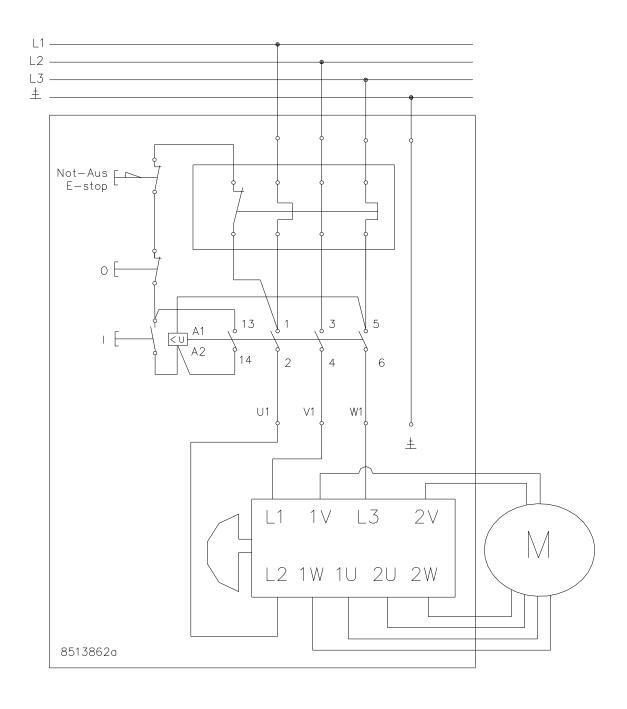


Fig.: 4.3.5 Diagram of belt grinder with two velocities and no exhaustmotor.

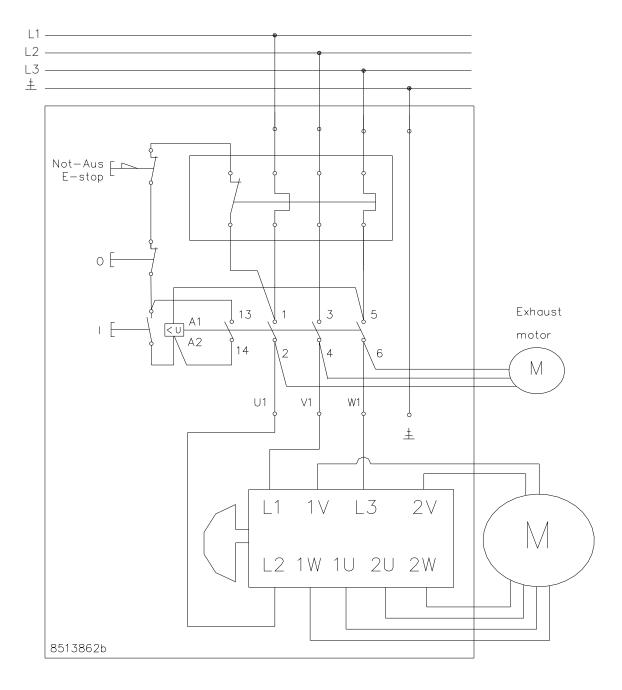
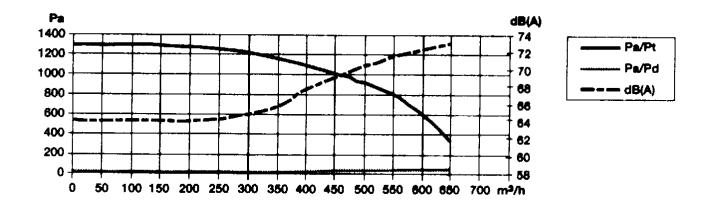


Fig.: 4.3.6 Diagram of belt grinder with two velocities and exhaustmotor.

4.4 Pressurediagram

The fan is especially developed for belt grinders. It can set up a pressure up to 1300 Pa and a air flow from 0 to 650 m³/hour. It is constructed of 1,5 mm steel plate and is spot welded. It has a 3-phase motor 3x230/400 V and 1x230V 50/60 Hz, 2800 r.p.m. . The fan is enclosed in Class IP 54.



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