

Standard Motor Starters Series 8220



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STAHL



- > Enclosure with type of protection Ex d and terminal compartment enclosure with Ex e
- > Available standard motor controllers
 - Direct-on-line motor starters DOL
 - Star-delta starter combinations YD
 - Reversing starter combinations
- > Advantage
 - short delivery times



10102E00

The standard motor starters are fitted into enclosures with type of protection "flameproof enclosure".
The standard starters are supplied without main switch, main fuses and without control and monitoring devices. These parts can be fitted to order.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
For use in		x	x		x	x

E7

WebCode 8220A



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Standard Motor Starters, Direct On-Line Motor Starters DOL Series 8220

Explosion Protection

Global (IECEx)

Gas	IECEx PTB 06.0069 Ex de [ia/ib] IIC T6, T5, T4
Dust	IECEx PTB 06.0069 Ex tD A21 IP6X T80°C, T95°C, T130°C

Europe (ATEX)

Gas and dust	PTB 02 ATEX 1109 Ex II 2 G Ex de [ia/ib] IIC T6, T5, T4 Ex II 2 D Ex tD A21 IP66 T80°C, T95°C, T130°C
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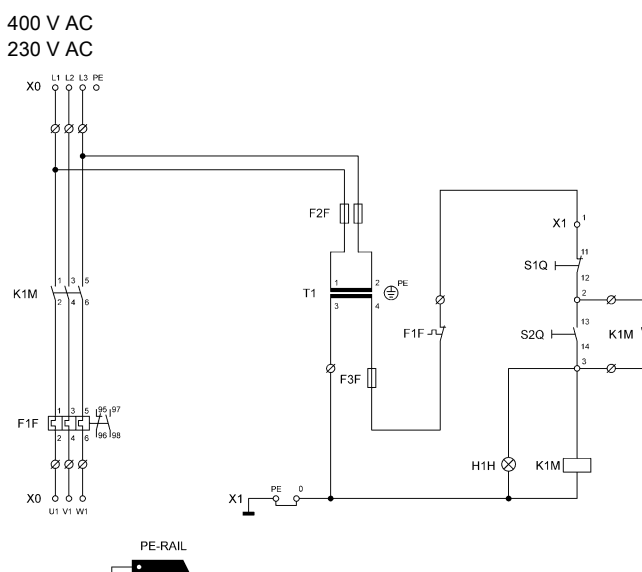
Certifications and certificates

Certificates	IECEx, ATEX, Kazakhstan (TR), Korea (KCs), Russia (TR), Belarus (TR)
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Technical Data

Electrical data

Rated voltage	400 V AC
Control voltage	230 V AC
Circuit diagram	



09805E00

Ambient conditions

Ambient temperature	-20 ... +40 °C
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Mechanical data

Degree of protection	IP55 (to order IP65)
Enclosure material	Sheet steel, cover: die-cast alloy / stainless steel
Colour	Enclosure: grey, RAL 7032, cover: dark grey, RAL 7022

Note

Note	Description: Single contactor for connecting and disconnecting the motor circuits and ohmic consumers. With thermal overcurrent release, version with control transformer acc. to EN 60204. Specify on order if the nominal voltage has a different value than 400 V because the transformer must then be selected appropriately.
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Direct On-Line Motor Starters DOL Selection Table

Switching capacity 400 V AC-3	Ex d enclosure	Terminals	Cable entries bottom	Order number
5.5 kW	8220/112	4 x 6 mm ² 3 x 4 mm ²	2 x M32 2 x M25	8220/5-SM-ES5,5kW400V-T
7.5 kW	8220/112	4 x 10 mm ² 3 x 6 mm ²	2 x M32 2 x M25	8220/5-SM-ES7,5kW400V-T
11 kW	8220/112	4 x 10 mm ² 3 x 6 mm ²	2 x M32 2 x M25	8220/5-SM-ES11kW400V-T
15 kW	8220/112	4 x 16 mm ² 3 x 6 mm ²	2 x M32 2 x M25	8220/5-SM-ES15kW400V-T
18.5 kW	8220/112	4 x 16 mm ² 3 x 10 mm ²	2 x M32 2 x M25	8220/5-SM-ES18,5kW400V-T
22 kW	8220/112	4 x 35 mm ² 3 x 10 mm ²	1 x M40 1 x M32 2 x M25	8220/5-SM-ES22kW400V-T
30 kW	8220/122	4 x 35 mm ² 3 x 16 mm ²	1 x M40 1 x M32 2 x M25	8220/5-SM-ES30kW400V-T
37 kW	8220/122	4 x 35 mm ² 3 x 16 mm ²	1 x M40 1 x M32 2 x M25	8220/5-SM-ES37kW400V-T
45 kW	8220/122	4 x 50 mm ² 3 x 35 mm ²	1 x M50 1 x M40 2 x M25	8220/5-SM-ES45kW400V-T
55 kW	8220/122	4 x 50 mm ² 3 x 35 mm ²	1 x M50 1 x M40 2 x M25	8220/5-SM-ES55kW400V-T
75 kW	8220/122	4 x 50 mm ² 3 x 35 mm ²	1 x M50 1 x M40 2 x M25	8220/5-SM-ES75kW400V-T

Standard Motor Starters, Star-Delta Contactor Starters YD Series 8220

Explosion Protection

Global (IECEx)

Gas	IECEx PTB 06.0069 Ex de [ia/ib] IIC T6, T5, T4
Dust	IECEx PTB 06.0069 Ex tD A21 IP6X T80°C, T95°C, T130°C

Europe (ATEX)

Gas and dust	PTB 02 ATEX 1109 II 2 G Ex de [ia/ib] IIC T6, T5, T4 II 2 D Ex tD A21 IP66 T80°C, T95°C, T130°C
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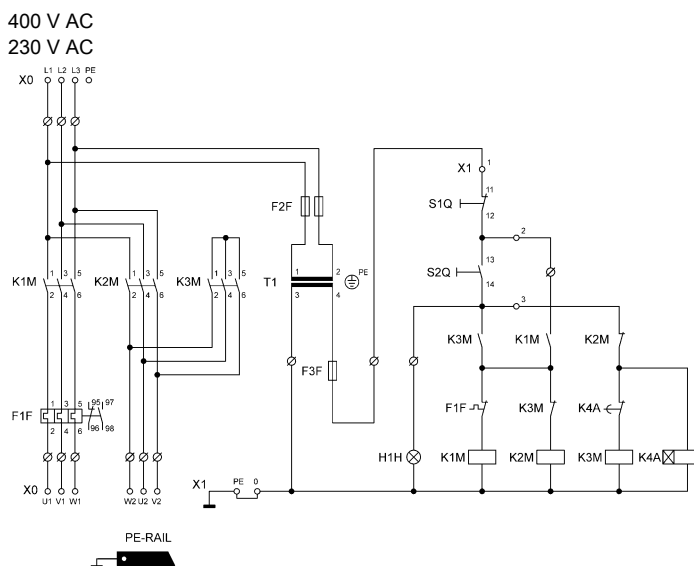
Certifications and certificates

Certificates	IECEx, ATEX, Kazakhstan (TR), Korea (KCs), Russia (TR), Belarus (TR)
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Technical Data

Electrical data

Rated voltage	400 V AC
Control voltage	230 V AC
Circuit diagram	



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Ambient conditions

Ambient temperature	-20 ... +40 °C
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Mechanical data

Degree of protection	IP55 (to order IP65)
Enclosure material	Sheet steel, cover: die-cast alloy / stainless steel
Colour	Enclosure: grey, RAL 7032, cover: dark grey, RAL 7022

Note

Note	Description: Contactor combination for connecting and disconnecting the motor circuits and ohmic consumers. With thermal overcurrent release, version with control transformer acc. to EN 60204. Specify on order if the nominal voltage has a different value than 400 V because the transformer must then be selected appropriately.
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Star-Delta Starter Combinations YD

Selection Table

Switching capacity 400 V AC-3	Ex d enclosure	Terminals		Cable entries bottom		Order number
11 kW	8220/122	4 x 6 mm ²	6 x 4 mm ²	3 x M32	2 x M25	8220/5-SL-SS11kW400V-T
15 kW	8220/122	4 x 6 mm ²	6 x 4 mm ²	3 x M32	2 x M25	8220/5-SL-SS15kW400V-T
18.5 kW	8220/122	4 x 6 mm ²	6 x 4 mm ²	3 x M32	2 x M25	8220/5-SL-SS18,5kW400V-T
22 kW	8220/122	4 x 10 mm ²	6 x 6 mm ²	3 x M32	2 x M25	8220/5-SL-SS22kW400V-T
30 kW	8220/172	4 x 16 mm ²	6 x 6 mm ²	3 x M40	2 x M25	8220/5-SL-SS30kW400V-T
37 kW	8220/172	4 x 35 mm ²	6 x 10 mm ²	3 x M40	2 x M25	8220/5-SL-SS37kW400V-T
45 kW	8220/132	4 x 35 mm ²	6 x 16 mm ²	1 x M50	2 x M40 2 x M25	8220/5-SL-SS45kW400V-T
55 kW	8220/132	4 x 50 mm ²	6 x 35 mm ²	1 x M50	2 x M40 2 x M25	8220/5-SL-SS55kW400V-T
75 kW	8220/132	4 x 50 mm ²	6 x 35 mm ²	1 x M50	2 x M40 2 x M25	8220/5-SL-SS75kW400V-T
90 kW	8220/133	4 x 95 mm ²	6 x 50 mm ²	1 x M63	2 x M40 2 x M25	8220/5-SL-SS90kW400V-T
110 kW	8220/133	4 x 150 mm ²	6 x 95 mm ²	1 x M63	2 x M50 2 x M25	8220/5-SL-SS110kW400V-T
132 kW	8220/133	4 x 150 mm ²	6 x 95 mm ²	1 x M63	2 x M50 2 x M25	8220/5-SL-SS132kW400V-T
160 kW	8220/196	4 x 240 mm ²	6 x 150 mm ²	3 x M63	2 x M25	8220/5-SL-SS160kW400V-T
200 kW	8220/196	4 x 240 mm ²	6 x 150 mm ²	3 x M63	2 x M25	8220/5-SL-SS200kW400V-T

Standard Motor Starters, Reversing Starter Combinations

Explosion Protection

Global (IECEx)	
Gas	IECEx PTB 06.0069 Ex de [ia/ib] IIC T6, T5, T4
Dust	IECEx PTB 06.0069 Ex tD A21 IP6X T80°C, T95°C, T130°C

Europe (ATEX)

Europe (ATEX)	Gas and dust	PTB 02 ATEX 1109	
		 II 2 G Ex de [ia/ib] IIC T6, T5, T4	
		II 2 D Ex tD A21 IP66 T80°C, T95°C, T130°C	

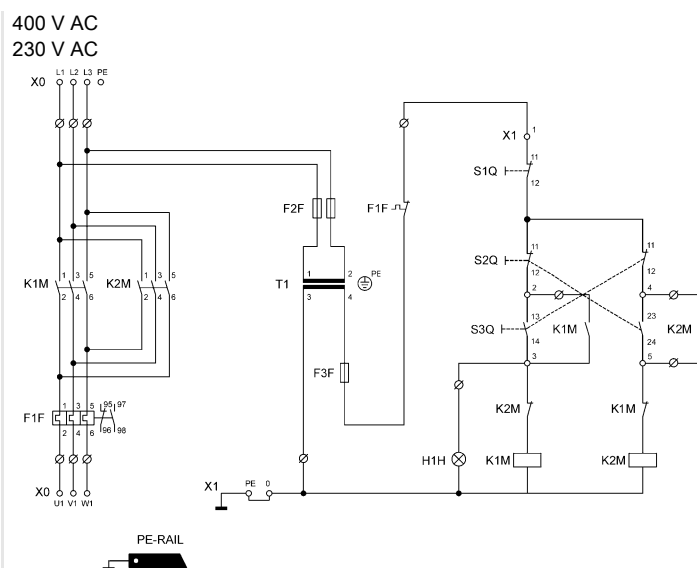
Certifications and certificates

Certificates	IECEX, ATEX, Kazakhstan (TR), Korea (KCs), Russia (TR), Belarus (TR)
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Technical Data

Electrical data

Rated voltage
Control voltage
Circuit diagram



10043E00

Ambient conditions

Ambient temperature -20 ... +40 °C

Mechanical data

Degree of protection	IP55 (to order IP65)
Enclosure material	Sheet steel, cover: die-cast alloy / stainless steel
Colour	Enclosure: grey, RAL 7032, cover: dark grey, RAL 7022

Note

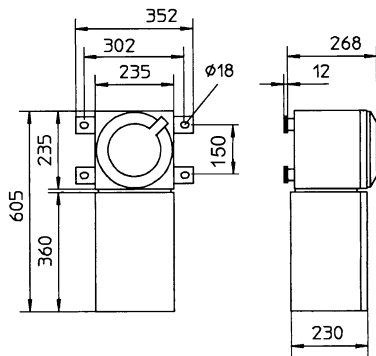
Note	Description: Contactor combination for changing the phase sequence of the motor circuits. With thermal overcurrent release, version with control transformer acc. to EN 60204. Specify on order if the nominal voltage has a different value than 400 V because the transformer must then be selected appropriately.
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Reversing Starter Combinations Selection Table

Switching capacity 400 V AC-3	Ex d enclosure	Terminals		Cable entries bottom			Order number
5.5 kW	8220/122	4 x 6 mm ²	3 x 4 mm ²	2 x M32	2 x M25		8220/5-SL-WS5,5kW400V-T
7.5 kW	8220/122	4 x 6 mm ²	3 x 4 mm ²	2 x M32	2 x M25		8220/5-SL-WS7,5kW400V-T
11 kW	8220/122	4 x 10 mm ²	3 x 6 mm ²	2 x M32	2 x M25		8220/5-SL-WS11kW400V-T
15 kW	8220/122	4 x 16 mm ²	3 x 6 mm ²	2 x M32	2 x M25		8220/5-SL-WS15kW400V-T
18.5 kW	8220/122	4 x 16 mm ²	3 x 10 mm ²	2 x M32	2 x M25		8220/5-SL-WS18,5kW400V-T
22 kW	8220/122	4 x 35 mm ²	3 x 16 mm ²	1 x M40	1 x M32	2 x M25	8220/5-SL-WS22kW400V-T
30 kW	8220/122	4 x 35 mm ²	3 x 16 mm ²	1 x M40	1 x M32	2 x M25	8220/5-SL-WS30kW400V-T
37 kW	8220/122	4 x 50 mm ²	3 x 35 mm ²	1 x M40	1 x M32	2 x M25	8220/5-SL-WS37kW400V-T
45 kW	8220/122	4 x 95 mm ²	3 x 35 mm ²	1 x M50	1 x M40	2 x M25	8220/5-SL-WS45kW400V-T
55 kW	8220/133	4 x 95 mm ²	3 x 50 mm ²	1 x M50	1 x M40	2 x M25	8220/5-SL-WS55kW400V-T
75 kW	8220/133	4 x 95 mm ²	3 x 95 mm ²	1 x M63	1 x M50	2 x M25	8220/5-SL-WS75kW400V-T

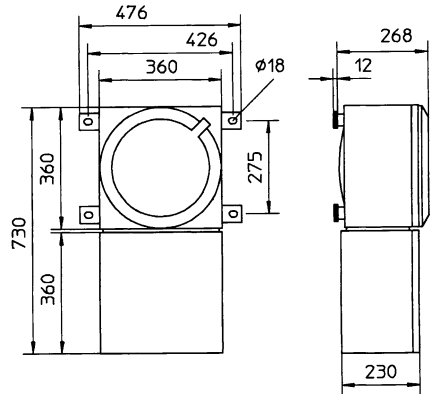
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Dimensional Drawings (All Dimensions in mm) - Subject to Alterations



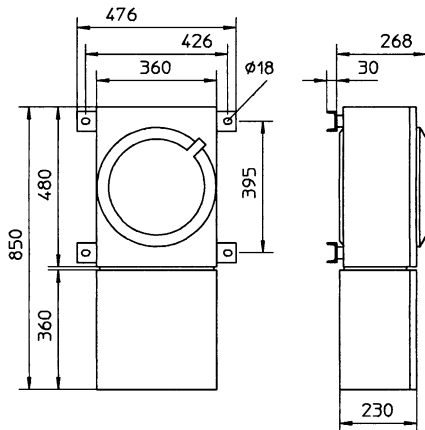
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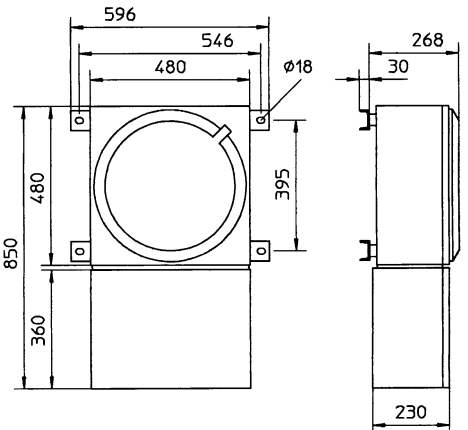
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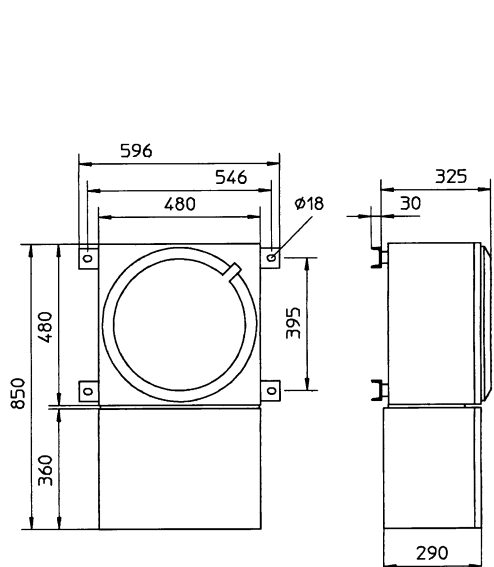
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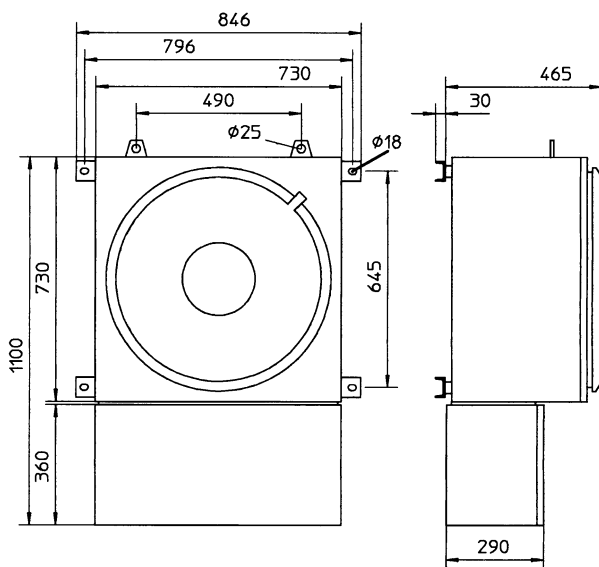
8220/132

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8220/133

04475E00



8220/196

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 The illustrations cannot be considered binding.