

Contactor max. 7.5 kW / 400 V
 Series 8510



- > Screw fastening version
 - robust
 - vibration resistant
 - reliable
- > Corrosion resistant enclosure material
- > Easily accessible connection terminals enable
 - safe connection
 - einfaceasy installation
- > Modular technology
 - clear arrangement in the Ex e enclosure
 - flexibly expandable for system modifications



10171E00

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

Explosion Protection

Global (IECEx)

Gas | IECEx BVS 07.0029U
 Ex d e IIC, Ex d e I

Europe (ATEX)

Gas | DMT 00 ATEX E 073 U
 II 2G Ex d e IIC
 I M2 Ex d e I

Certifications and certificates

Certificates | ATEX, IECEx, Belarus (operating authorisation)

E9

WebCode 8510D

Contactor max. 7.5 kW / 400 V

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Selection Table

Version	Schematic	Rated operating voltage	Order number	Weight kg
Contactor max. 7.5 kW / 400 V with 3 main contacts and 4 auxiliary contacts		AC: 230 V, 50 / 60 Hz	8510/122-03-336-130	1.820
		Please refer to order number supplement and add it to the type	8510/122-03-336-..0	1.820

Order Number Supplement

Rated control voltage	AC: 24 V, 50 / 60 Hz	8510/.....-01.
	AC: 42 V, 50 / 60 Hz	8510/.....-02.
	AC: 48 V, 50 / 60 Hz	8510/.....-10.
	* AC: 110 V, 50 / 60 Hz	8510/.....-03.
	AC: 400 ... 415 V, 50 / 60 Hz	8510/.....-08.
	AC: 400 V, 50 / 60 Hz	8510/.....-16.
	AC: 440 V, 50 / 60 Hz	8510/.....-18.
	AC: 500 V, 50 / 60 Hz	8510/.....-06.
	DC: 12 V	8510/.....-22.
	* DC: 24 V	8510/.....-21.
	* DC: 48 V	8510/.....-23.
	DC: 60 V	8510/.....-28.
	DC: 110 V	8510/.....-24.
	* Preferred voltage	

Note: DC-coil serially with suppressor circuit

Technical Data

Electrical data

Main circuit

Rated operational voltage	max. 690 V														
Rated operational frequency	50 / 60 Hz														
Conventional thermal current I_{th}	25 A ($\theta \leq 60 \text{ }^\circ\text{C}$)														
Short-circuit protection	Via fuse 35 A gG for $U \leq 440 \text{ V}$ 25 A gG for $U > 440 \text{ V}$														
Switching capacity	Working power of three-phase motors 50/60 Hz, nach AC-3 <table> <thead> <tr> <th>U_e [V]</th> <th>220 / 230</th> <th>380 / 400</th> <th>415</th> <th>440</th> <th>500</th> <th>660 / 690</th> </tr> </thead> <tbody> <tr> <td>P [kW]</td> <td>4</td> <td>7,5</td> <td>9</td> <td>9</td> <td>10</td> <td>15</td> </tr> </tbody> </table>	U_e [V]	220 / 230	380 / 400	415	440	500	660 / 690	P [kW]	4	7,5	9	9	10	15
U_e [V]	220 / 230	380 / 400	415	440	500	660 / 690									
P [kW]	4	7,5	9	9	10	15									

Auxiliary contact

Conventional thermal current I_{th}	10 A
Short circuit protection	via fuse 10 A gG; to VDE 0660 / IEC/EN 60947
Switching capacity	AC-15: 6 A / 500 V

Control circuit

AC

Rated operating voltage	U_c 50 / 60 Hz: 12 ... 690 V
Operation range	Coil 50 / 60 Hz 50 Hz: 0,8 ... 1,1 U_c 60 Hz at 60 °C: 0,85 ... 1,1 U_c
Drop out value	Coil 50 / 60 Hz at 60 °C: 0,3 ... 0,6 U_c
Average power input	at U_c and 20 °C Pick-up: 70 VA Hold: 7 VA
Operation voltage	at U_c and 20 °C
Pick-up	70 VA
Hold	7 VA

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Technical Data

Control circuit	
AC	
Mechanical service life	at U_c : 15 Mio. switching cycles
Max. operating cycles	3600 switching cycles per hour
DC	
Rated operating voltage	U_c : 12 ... 440 V
Operation range	at 60 °C: 0,7 ... 1,25 U_c
Drop out value	at 60 °C: 0,1 ... 0,25 U_c
Average power input	at U_c and 20 °C Pick-up: 5,4 W Hold: 5,4 W
Mechanical service life	at U_c : 30 Mio. switching cycles
Maximum switching frequency	3600 switching cycles per hour
Ambient conditions	
Ambient temperature	
Storage	-50 ... +80 °C
Operation at U_c	-20 ... +40 °C
Mechanical data	
Material	
Enclosure material	Epoxy resin
Terminal cover	Polyamide; IP20, finger-contact safety according to IEC/EN 60529
Conductor cross-section	
Main contacts	1,5 ... 6 mm ² flexible 1,5 ... 10 mm ² solid
Auxiliary contacts	0,75 ... 1,5 mm ² flexible 0,75 ... 2,5 mm ² solid

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

Type	Dimension H
8510/122	168 mm

8510/122

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.