



Contactor 25/26 kW / 400 V
 Series 8510

www.stahl.de



12651E00

- > 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



E9

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

Explosion Protection

Marking

IECEX	Ex de IIC, Ex de I
Europe (ATEX)	II 2 G Ex de IIC I M 2 Ex de I

Certificates

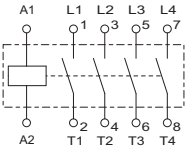
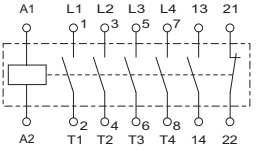
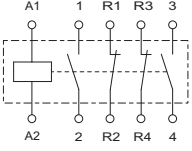
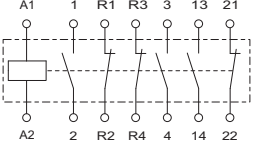
IECEX	IECEX BVS 07.0029U
Europe (ATEX)	DMT 00 ATEX E 073 U
Further certificates	Canada (CSA), Belarus (Gospromnadzor)

WebCode 8510U

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Selection Table

Version	Circuit diagram	Rated operating voltage	Order number
Contactor 25/26 kW / 400 V with 4 main contacts, NO	 12652E00	Please refer to order number supplement and add it to the type	8510 / 132-03-540- . . 0
Contactor 25/26 kW / 400 V with 4 main contacts and 1 NO + 1 NC auxiliary contact	 12653E00	Please refer to order number supplement and add it to the type	8510 / 132-03-545- . . 0
Contactor 25/26 kW / 400 V with 4 main contacts 2 NO + 2 NC	 12654E00	Please refer to order number supplement and add it to the type	8510 / 132-03-550- . . 0
Contactor 25/26 kW / 400 V with 4 main contacts 2 NO + 2 NC and 1 NO + 1 NC auxiliary contact	 12655E00	Please refer to order number supplement and add it to the type	8510 / 132-03-555- . . 0

Order Number Supplement

AC: 24 V, 50 / 60 Hz	8510 / -01.
* AC: 110 V, 50 / 60 Hz	8510 / -03.
AC: 220 V, 50 / 60 Hz	8510 / -12.
* AC: 230 V, 50 / 60 Hz	8510 / -13.
AC: 400 V, 50 / 60 Hz	8510 / -16.
* DC: 24 V	8510 / -21.
DC: 12 V	8510 / -22.
* DC: 48 V	8510 / -23.
DC: 110 V	8510 / -24.
DC: 60 V	8510 / -28.
Further version on request	8510 / -99
* Preferred voltage	

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Technical Data

Electrical data																												
Main circuit																												
Rated operational voltage	max. 690 V																											
Rated operational frequency	50 Hz / 60 Hz																											
Conventional thermal current I_{th}	Contact 1 ... 6 ($\theta \leq 60^\circ\text{C}$): 44 A Contact 1 ... 8 ($\theta \leq 60^\circ\text{C}$): 40 A																											
Short circuit protection	AC rated operational voltage: 50 A gG, $I_k \geq 1000$ A DC rated operational voltage: 40 A gG																											
Switching capacity	AC rated operational voltage rated operation power 50 Hz, to AC1																											
	<table border="1"> <tr> <td>U_e [V]</td> <td>230</td> <td>400</td> <td>500</td> <td>690</td> </tr> <tr> <td>P [kW]</td> <td>15</td> <td>26</td> <td>33</td> <td>45</td> </tr> </table>	U_e [V]	230	400	500	690	P [kW]	15	26	33	45																	
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P [kW]	14	15	25	27	29	33	43																					
Auxiliary contact																												
Short-circuit protection	via fuse: 10 A gG to VDE 0660 / IEC 60947																											
Switching capacity	Contact 13/24 and 13/22 AC15: 230 V / 6 A 400 V / 3 A 500 V / 2 A																											
Control circuit																												
AC																												
Rated operating voltage	24 V ... 400 V																											
Operation range	Coil 50 Hz: 0.8 ... 1.1 U_c																											
Average power input	at U_c and 20 °C 50 Hz Pick-up: 145 VA Hold: 12.5 VA at U_c and 20 °C 60 Hz Pick-up: 170 VA Hold: 15 VA																											
Mechanical service life	10 million switching cycles																											
Electrical service life	0.5 million switching cycles																											
Weight	2.95 kg																											
DC																												
Rated operating voltage	12 V ... 440 V																											
Operation range	0.7 ... 1.25 U_c																											
Drop out value	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 : 20 million switching cycles																											
Electrical life	at U_c : 0.5 million switching cycles																											
Maximum switching frequency	3600 switching cycles per hour																											
Weight	2.35 kg																											
Ambient conditions																												
Ambient temperature																												
Storage	- 50 °C ... + 80 °C																											
Operation at U_c	- 20 °C ... + 40 °C																											
Mechanical data																												
Material																												
Enclosure material	Epoxy resin																											
Terminal cover	Polyamide; IP20, finger-contact safety according to IEC 60 529																											

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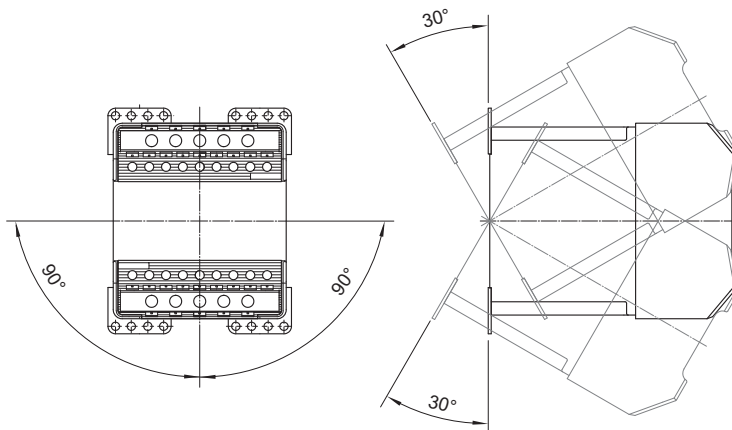
Technical Data

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

Mounting / Installation

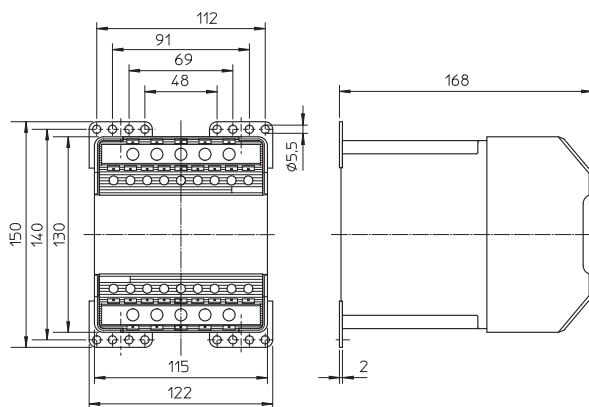
Installation position

Operating Positions (derating without)



12656E00

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



07851E00

8510/132

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