

Combination contactor / motor protection relay max. 7.5 kW / 400 V

Series 8510

www.stahl.de



- > For installation in an Ex e enclosure
- > Version with screw fastening
 - robust
 - vibration-proof
 - reliable
- > Readily accessible connection terminals for
 - reliable connection
 - easy installation



14307E00

	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 2 G Ex d e IIC I M2 Ex d e I
Certificates and approvals	
Certificates	ATEX, IECEx, Belarus (operating authorisation)

WebCode 8510Q

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Selection Table

Version	Schematic	Rated operating voltage	Current setting range A	Order number	Weight kg
Combination contactor / motor protection relay		AC: 230 V, 50 / 60 Hz	6.0 ... 10.0	8510/132-04-336-130-12	2.600
		AC: 230 V, 50 / 60 Hz	10.0 ... 16.0	8510/132-04-336-130-13	2.600
		AC: 240 V, 50 / 60 Hz	10.0 ... 16.0	8510/132-04-336-140-13	2.600
		AC: 400 V, 50 / 60 Hz	10.0 ... 16.0	8510/132-04-336-160-13	2.600
		Please refer for it to the order number supplement and add it to the type		8510/132-04-336-..0-..	2.600

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: 120 V, 50 / 60 Hz	8510/...-...-55.
	AC: 127 V, 50 / 60 Hz	8510/...-...-53.
	AC: 220 V, 50 / 60 Hz	8510/...-...-12.
	AC: 230 V, 50 / 60 Hz	8510/...-...-13.
	AC: 240 V, 50 / 60 Hz	8510/...-...-14.
	AC: 380 V, 50 / 60 Hz	8510/...-...-15.
	AC: 400 V, 50 / 60 Hz	8510/...-...-16.
	AC: 415 V, 50 / 60 Hz	8510/...-...-17.
	AC: 440 V, 50 / 60 Hz	8510/...-...-18.
	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.	
Current setting range	4.0 ... 6.0 A	8510/132-04-.36-..0-10
	6.0 ... 10.0 A	8510/132-04-.36-..0-12
	10.0 ... 16.0 A	8510/132-04-.36-..0-13
* Preferred voltage		

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Technical Data

Electrical data

Main circuit	
Rated operational voltage	max. 690 V
Rated operational frequency	50 / 60 Hz
Conventional thermal current I_{th}	32 A
Short-circuit protection	for fuses, see tripping characteristic curves
Switching capacity	Rated powers of three-phase motors 50 Hz / 60 Hz, according to AC-3
U_e [V]	220 / 230 380 / 400 415 440 500 660/690
P [kW]	4 7.5 9 9 10 10
Tripping characteristics	10 A
Auxiliary contacts	
Rated operational current I_e	AC 15 220 / 240 V 400 V 500 V
	NC 1.5 A 0.9 A 0.8 A
	NO 1.5 A 0.5 A 0.5 A
Conventional thermal current I_{th}	6 A
Short-circuit strength	6 A, gG
Switching capacity	AC-15: 6 A / 500 V
Control circuit	
AC	
Rated operating voltage	U_c 50 / 60 Hz: 24 ... 440 V
Operation range	Coil 50 Hz / 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 Hz / 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
DC	
Rated operating voltage	U_c : 12 ... 110 V
Operation range	bei 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 million 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

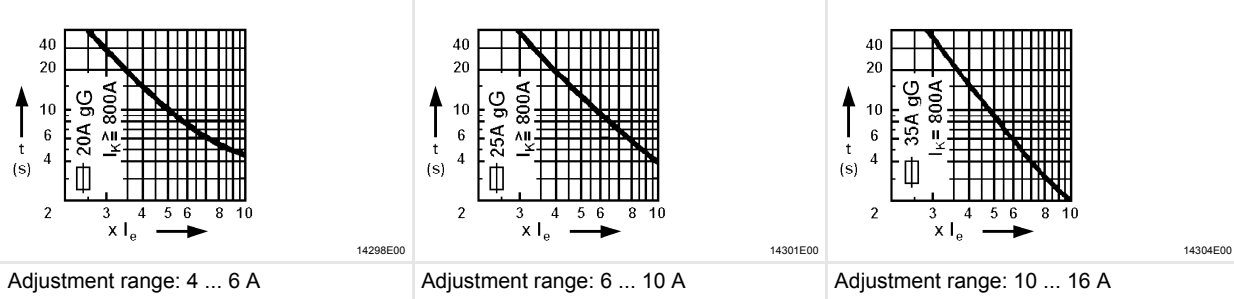
Mechanical data

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
Phase-failure protection	yes
Temperature compensation	yes
Trip-free mechanism	also if the unlock button is pressed
Reset	can be operated from outside via button
Mounting orientation	any

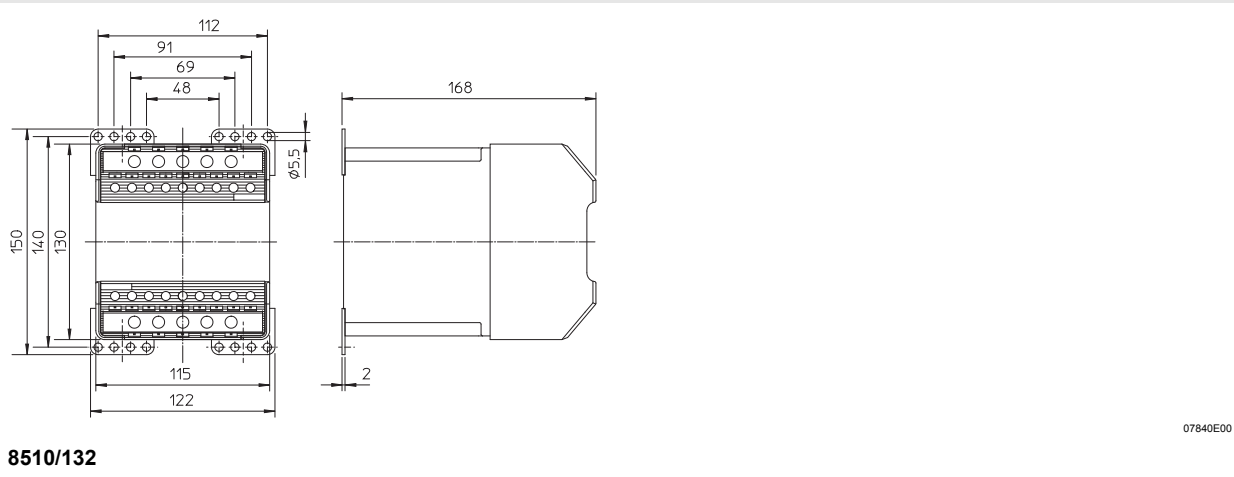
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Tripping characteristic curves



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



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.