

Motor Protection Relay Series 8510



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08389E00

- > 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
- > Tripping device easy to setup/reset



	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)


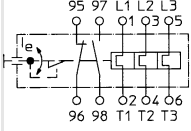

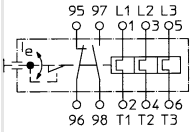
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WebCode 8510J

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Selection Table

Version	Schematic	Current setting range	Order number	Weight kg
 <p>8510/141</p> <p>08386E00</p>		0.11 ... 0.16 A	8510/141-05-335-010	1.600
		0.14 ... 0.20 A	8510/141-05-335-020	1.600
		0.18 ... 0.25 A	8510/141-05-335-030	1.600
		0.22 ... 0.32 A	8510/141-05-335-040	1.600
		0.28 ... 0.40 A	8510/141-05-335-050	1.600
		0.35 ... 0.50 A	8510/141-05-335-060	1.600
		0.45 ... 0.63 A	8510/141-05-335-070	1.600
		0.55 ... 0.80 A	8510/141-05-335-080	1.600
		0.70 ... 1.0 A	8510/141-05-335-090	1.600
		0.90 ... 1.25 A	8510/141-05-335-100	1.600
		1.1 ... 1.6 A	8510/141-05-335-110	1.590
		1.4 ... 2.0 A	8510/141-05-335-120	1.600
		1.8 ... 2.5 A	8510/141-05-335-130	1.600
		2.2 ... 3.2 A	8510/141-05-335-140	1.600
		2.8 ... 4.0 A	8510/141-05-335-150	1.600
		3.5 ... 5.0 A	8510/141-05-335-160	1.600
		4.5 ... 6.3 A	8510/141-05-335-170	1.600
		5.5 ... 8.0 A	8510/141-05-335-180	1.600
		7.0 ... 10.0 A	8510/141-05-335-190	1.600
9.0 ... 11.0 A	8510/141-05-335-200	1.600		
 <p>8510/122</p> <p>01469E00</p>		0.1 ... 0.16 A	8510/122-05-235-010	1.300
		0.16 ... 0.24 A	8510/122-05-235-020	1.300
		0.24 ... 0.4 A	8510/122-05-235-030	1.300
		0.4 ... 0.6 A	8510/122-05-235-040	1.300
		0.6 ... 1.0 A	8510/122-05-235-050	1.300
		1.0 ... 1.6 A	8510/122-05-235-070	1.300
		1.6 ... 2.4 A	8510/122-05-235-080	1.300
		2.4 ... 4.0 A	8510/122-05-235-090	1.300
		4.0 ... 6.0 A	8510/122-05-235-100	1.300
		6.0 ... 10.0 A	8510/122-05-235-120	1.300
		10.0 ... 16.0 A	8510/122-05-235-130	1.300
		16.0 ... 22.5 A	8510/122-05-235-140	1.300

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Technical Data

Electrical data

Main contacts				
Rated operational voltage	690 V AC			
Back-up fuse	for fuses, refer to trip characteristics			
Current heat loss	6 W (in 3 circuits)			
Auxiliary and control circuits				
Contacts	1 NO + 1 NC			
Rated operational voltage	8510/141-05-335-....: 690 V AC; 8510/122-05-235-....: 500 V AC			
Rated operational current	8510/141-05- 335 -...			
	AC-15	230 V AC	400 V AC	690 V AC
	NO	3 A	1.5 A	0.6 A
	NC	2 A	1.0 A	0.6 A
	8510/141-05- 235 -...			
	AC-15	220/240 V AC	380/415 V AC	500 V AC
	NO	1.5 A	0.9 A	0.8 A
	NC	1.5 A	0.5 A	0.5 A
Conventional thermal current	6A			
Short-circuit rating without contact welding	6 A, gG			

Ambient conditions

Ambient temperature	
Storage	- 40 ... + 70 °C
Operation	- 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
Reset	operated by button externally
Phase-failure protection	yes
Temperature compensation	yes
Overload trip	10 A
Trip-free mechanism	trip-free, also by pushing stay-put button

Mounting / Installation

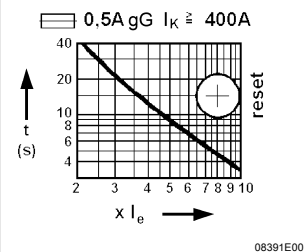
Installation position	any
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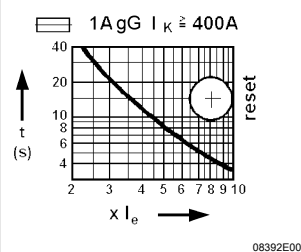
Tripping Characteristic

8510/141



Current setting range:
0.11 ... 0.16 A

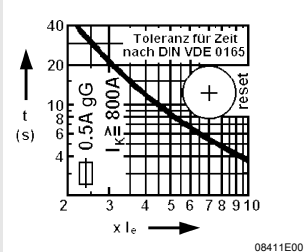
08391E00



Current setting range:
0.14 ... 0.2 A

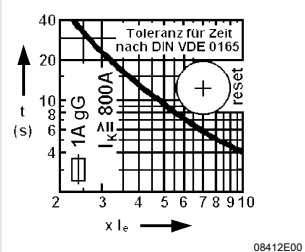
08392E00

8510/122



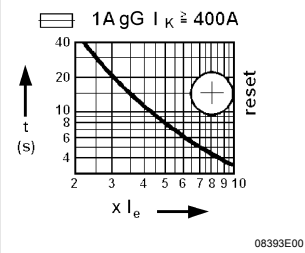
Current setting range:
0.1 ... 0.16 A

08411E00



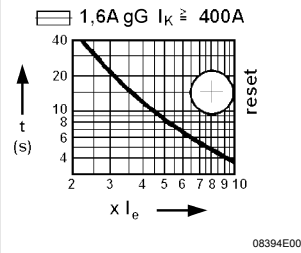
Current setting range:
0.16 ... 0.24 A

08412E00



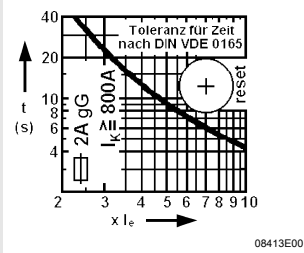
Current setting range:
0.18 ... 0.25 A

08393E00



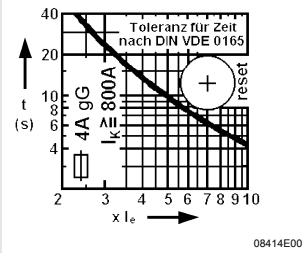
Current setting range:
0.22 ... 0.32 A

08394E00



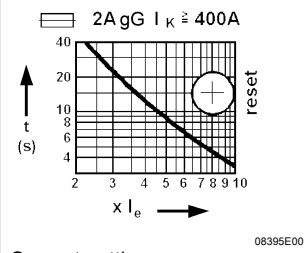
Current setting range:
0.24 ... 0.4 A

08413E00



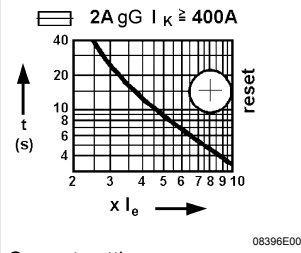
Current setting range:
0.4 ... 0.6 A

08414E00



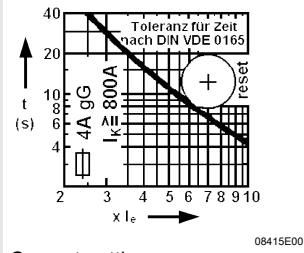
Current setting range:
0.28 ... 0.4 A

08395E00



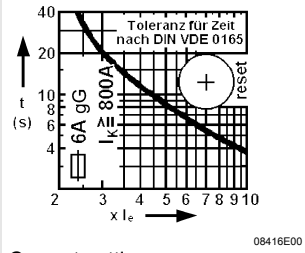
Current setting range:
0.35 ... 0.5 A

08396E00



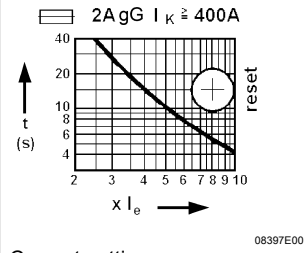
Current setting range:
0.6 ... 1 A

08415E00



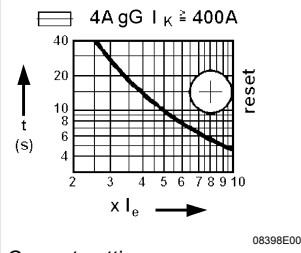
Current setting range:
1 ... 1.6 A

08416E00



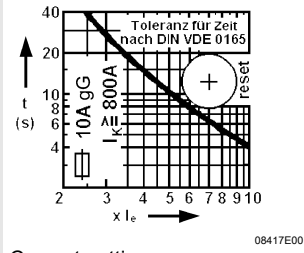
Current setting range:
0.45 ... 0.63 A

08397E00



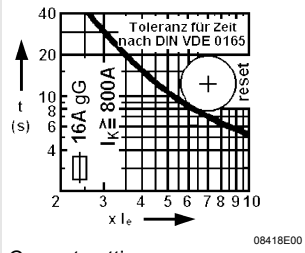
Current setting range:
0.55 ... 0.8 A

08398E00



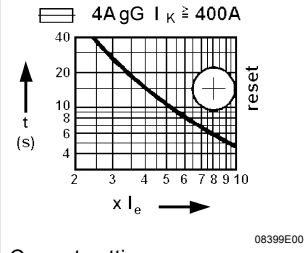
Current setting range:
1.6 ... 2.4 A

08417E00



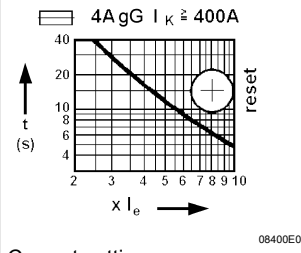
Current setting range:
2.4 ... 4 A

08418E00



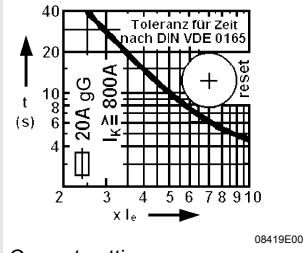
Current setting range:
0.7 ... 1 A

08399E00



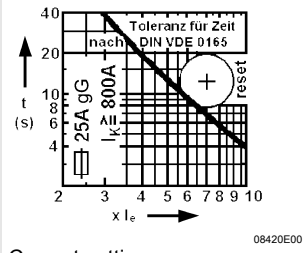
Current setting range:
0.9 ... 1.25 A

08400E00



Current setting range:
4 ... 6 A

08419E00



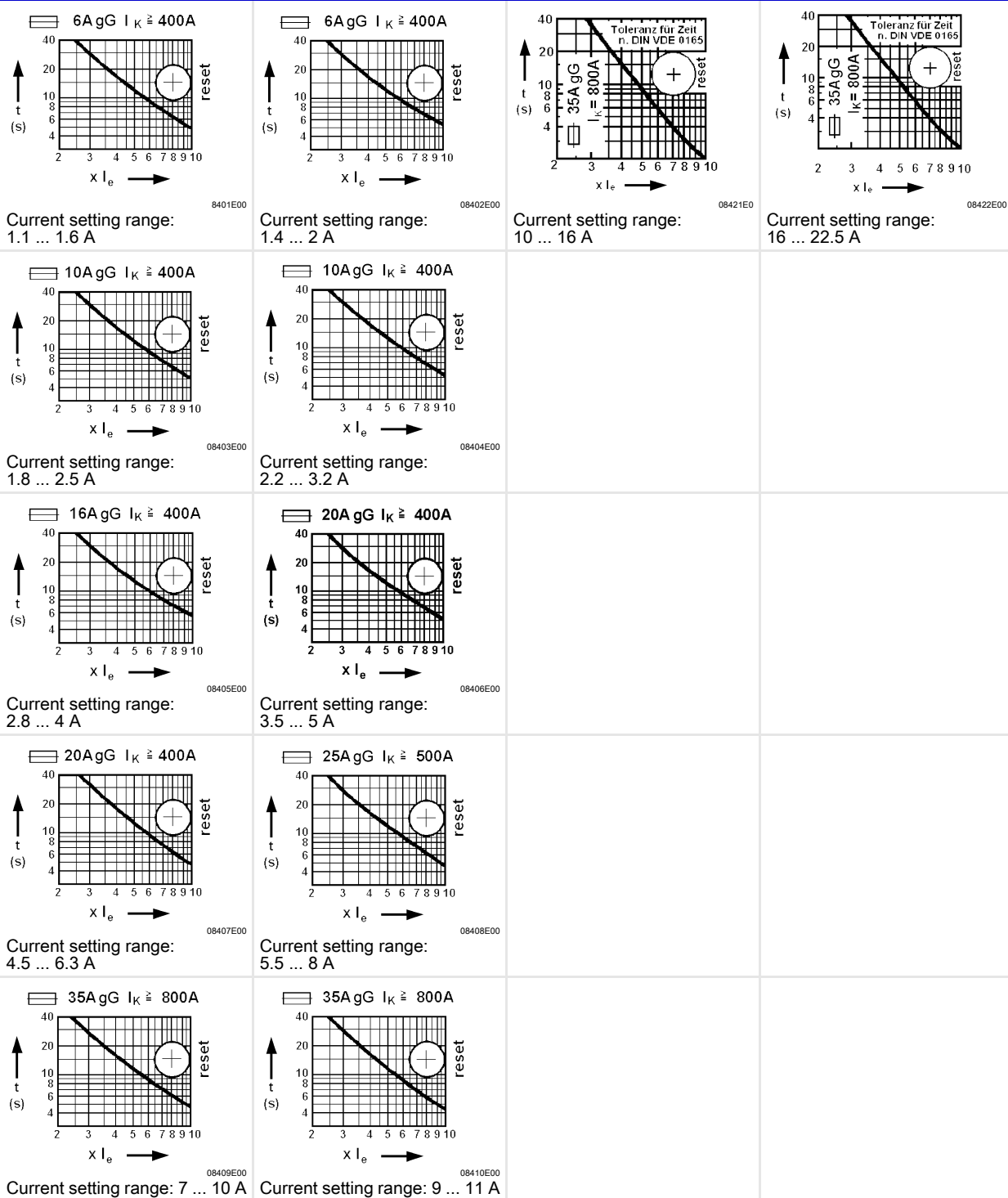
Current setting range:
6 ... 10 A

08420E00

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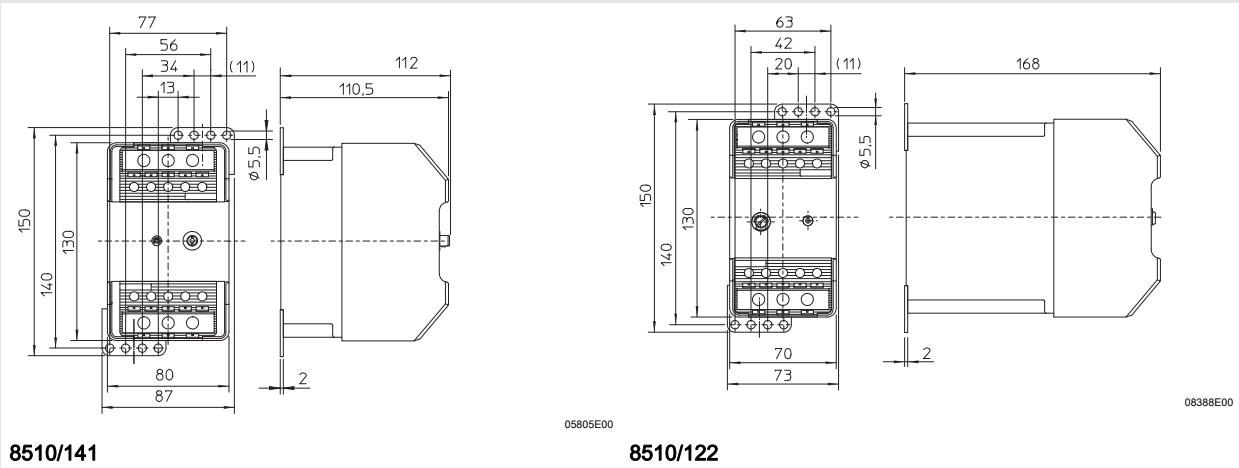
Tripping Characteristic



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



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