
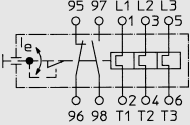

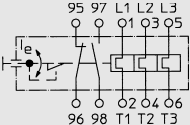




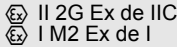
08390E00

### Motor Protection Relay Series 8510

- Explosion protection to
  - IEC
  - ATEX
- for use in Zone 1 and Zone 2
- for use in Ex e enclosures
- two sizes

Selection Table				
Version	Circuit diagram	Current setting range	Order number	Weight kg
 <p>8510/141</p> <p>08386E00</p>	 <p>08161E00</p>	0.11 ... 0.16 A	<a href="#">8510/141-05-335-010</a>	1.600
		0.14 ... 0.20 A	<a href="#">8510/141-05-335-020</a>	1.600
		0.18 ... 0.25 A	<a href="#">8510/141-05-335-030</a>	1.600
		0.22 ... 0.32 A	<a href="#">8510/141-05-335-040</a>	1.600
		0.28 ... 0.40 A	<a href="#">8510/141-05-335-050</a>	1.600
		0.35 ... 0.50 A	<a href="#">8510/141-05-335-060</a>	1.600
		0.45 ... 0.63 A	<a href="#">8510/141-05-335-070</a>	1.600
		0.55 ... 0.80 A	<a href="#">8510/141-05-335-080</a>	1.600
		0.70 ... 1.0 A	<a href="#">8510/141-05-335-090</a>	1.600
		0.90 ... 1.25 A	<a href="#">8510/141-05-335-100</a>	1.600
		1.1 ... 1.6 A	<a href="#">8510/141-05-335-110</a>	1.590
		1.4 ... 2.0 A	<a href="#">8510/141-05-335-120</a>	1.600
		1.8 ... 2.5 A	<a href="#">8510/141-05-335-130</a>	1.600
		2.2 ... 3.2 A	<a href="#">8510/141-05-335-140</a>	1.600
		2.8 ... 4.0 A	<a href="#">8510/141-05-335-150</a>	1.600
		3.5 ... 5.0 A	<a href="#">8510/141-05-335-160</a>	1.600
		4.5 ... 6.3 A	<a href="#">8510/141-05-335-170</a>	1.600
		5.5 ... 8.0 A	<a href="#">8510/141-05-335-180</a>	1.600
		7.0 ... 10.0 A	<a href="#">8510/141-05-335-190</a>	1.600
9.0 ... 11.0 A	<a href="#">8510/141-05-335-200</a>	1.600		
 <p>8510/122</p> <p>01465E00</p>	 <p>08161E00</p>	0.1 ... 0.16 A	<a href="#">8510/122-05-235-010</a>	1.300
		0.16 ... 0.24 A	<a href="#">8510/122-05-235-020</a>	1.300
		0.24 ... 0.4 A	<a href="#">8510/122-05-235-030</a>	1.300
		0.4 ... 0.6 A	<a href="#">8510/122-05-235-040</a>	1.300
		0.6 ... 1.0 A	<a href="#">8510/122-05-235-050</a>	1.300
		1.0 ... 1.6 A	<a href="#">8510/122-05-235-070</a>	1.300
		1.6 ... 2.4 A	<a href="#">8510/122-05-235-080</a>	1.300
		2.4 ... 4.0 A	<a href="#">8510/122-05-235-090</a>	1.300
		4.0 ... 6.0 A	<a href="#">8510/122-05-235-100</a>	1.300
		6.0 ... 10.0 A	<a href="#">8510/122-05-235-120</a>	1.300
		10.0 ... 16.0 A	<a href="#">8510/122-05-235-130</a>	1.300
		16.0 ... 22.5 A	<a href="#">8510/122-05-235-140</a>	1.300

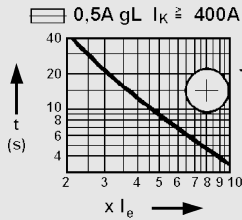
**Technical data**

Explosion protection				
Other certificates	IECEX, Canada (CSA), Belarus (Promatomnadzor)			
Ambient temperature				
Storage	- 40 ... + 70 °C			
Operation	- 20 ... + 40 °C			
Reset	operated by button externally			
Mounting position	any			
Phase-failure protection	yes			
Temperature compensation	yes			
Overload trip	10 A			
Trip-free mechanism	trip-free, also by pushing stay-put button			
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- <b>335</b> -...			
	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- <b>235</b> -...			
	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, gL			
Connection cross-section				
Main contacts	1.5 ... 6 mm <sup>2</sup> flexible 1.5 ... 10 mm <sup>2</sup> solid			
Auxiliary contacts	0.75 ... 1.5 mm <sup>2</sup> flexible 0.75 ... 2.5 mm <sup>2</sup> solid			
Material				
Enclosure material	Epoxy resin			
Terminal cover	Polyamide; IP20, finger-contact safety according to IEC 60529			



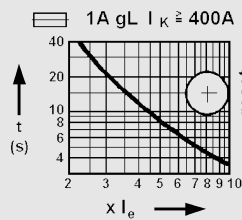
### Tripping Characteristic

8510/141



Current setting range:  
0.11 ... 0.16 A

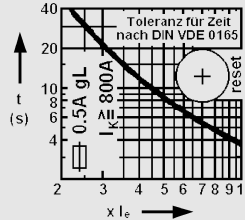
08391E00



Current setting range:  
0.14 ... 0.2 A

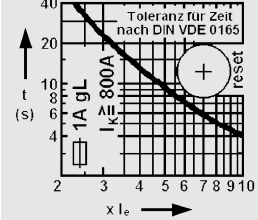
08392E00

8510/122



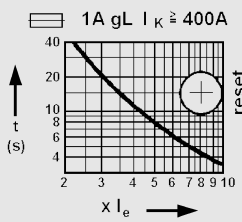
Current setting range:  
0.1 ... 0.16 A

08411E00



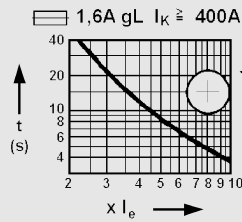
Current setting range:  
0.16 ... 0.24 A

08412E00



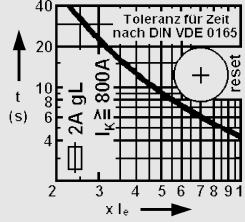
Current setting range:  
0.18 ... 0.25 A

08393E00



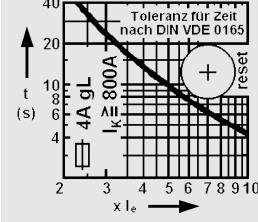
Current setting range:  
0.22 ... 0.32 A

08394E00



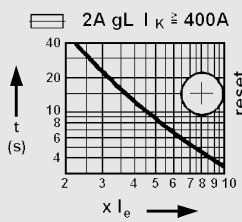
Current setting range:  
0.24 ... 0.4 A

08413E00



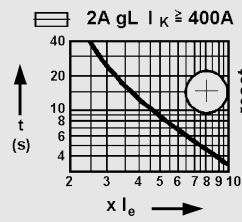
Current setting range:  
0.4 ... 0.6 A

08414E00



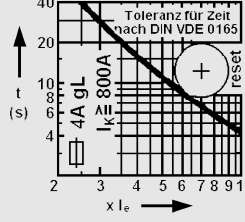
Current setting range:  
0.28 ... 0.4 A

08395E00



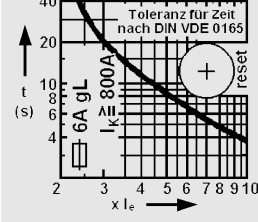
Current setting range:  
0.35 ... 0.5 A

08396E00



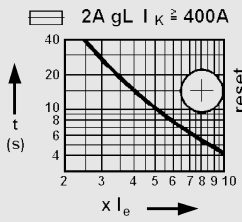
Current setting range:  
0.6 ... 1 A

08415E00



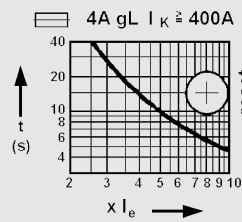
Current setting range:  
1 ... 1.6 A

08416E00



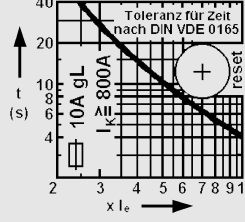
Current setting range:  
0.45 ... 0.63 A

08397E00



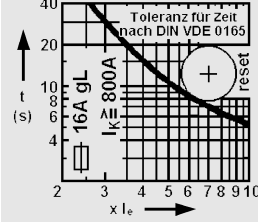
Current setting range:  
0.55 ... 0.8 A

08398E00



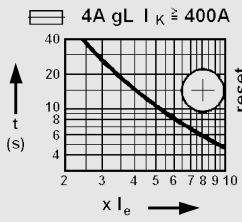
Current setting range:  
1.6 ... 2.4 A

08417E00



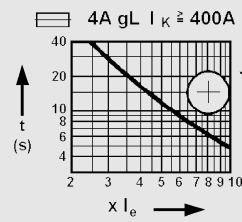
Current setting range:  
2.4 ... 4 A

08418E00



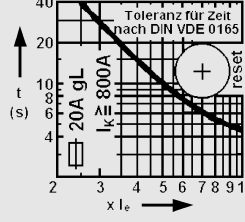
Current setting range:  
0.7 ... 1 A

08399E00



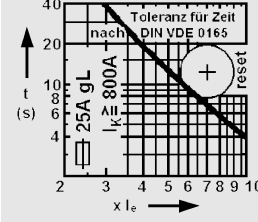
Current setting range:  
0.9 ... 1.25 A

08400E00



Current setting range:  
4 ... 6 A

08419E00

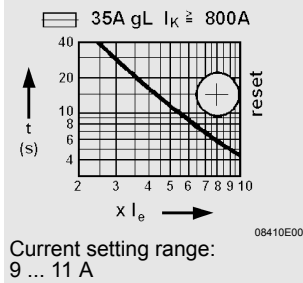
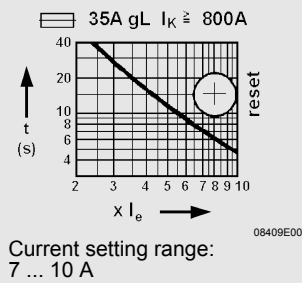
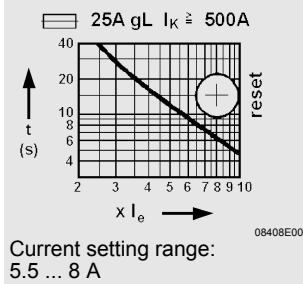
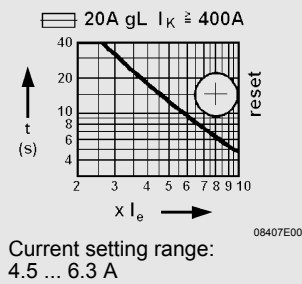
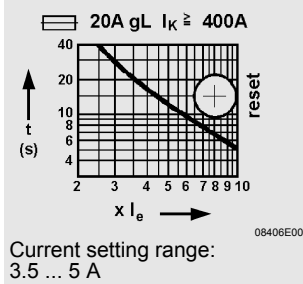
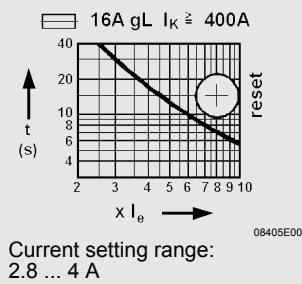
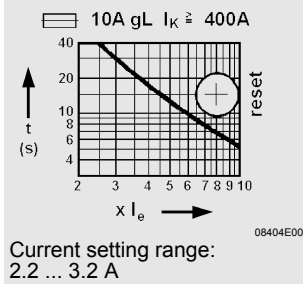
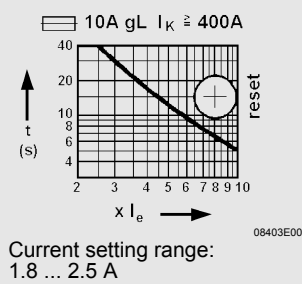
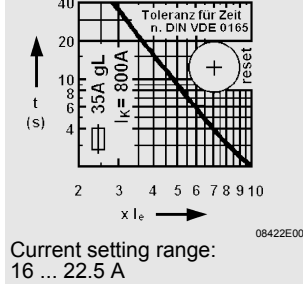
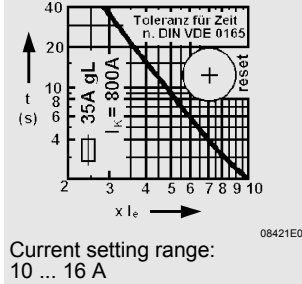
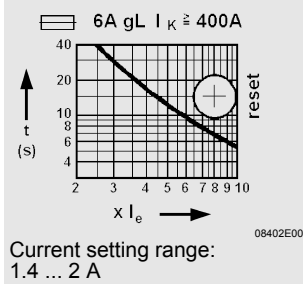
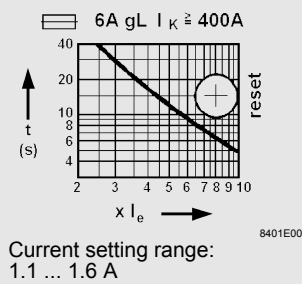


Current setting range:  
6 ... 10 A

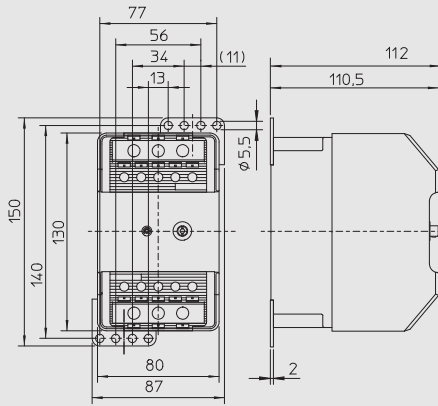
08420E00

STAHL

Tripping Characteristic

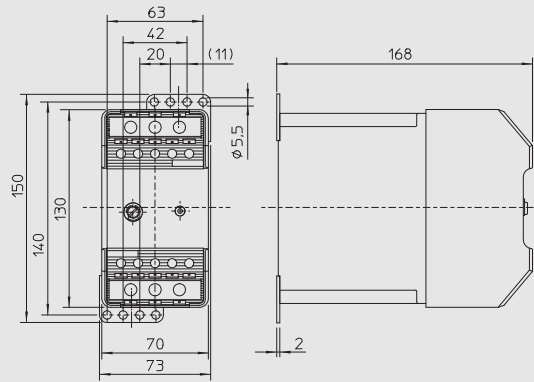


### Dimensional Drawings (All Dimensions in mm) - Subject to Alterations



**8510/141**

05805E00



**8510/122**

06388E00

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.