Thermistor-Motor Protection Relay

Series 8510





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



08384E00



the terminals A1 / A2, the motor protection is released by means of a potential-free contact and can be actuated now.

Two synchronised contacts are installed in the device.

Fault: Due to heating of the resistors (PTC characteristic) within the stator windings, the Thermistor-motor protection relay is triggered as soon as the limit value has been reached.

Return to normal operation:Only after the resistor has cooled down, the Thermistor-motor protection relay can be reset to normal operation by means of the S1 button

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

WebCode 8510K

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0-1	 Table

Version	Schematic	Supply voltage	Order number	Weight kg
Thermistor motor protection relay	T1 A1 11 23 11 12 23 11 12 23 11 12 24 12 24 24 24 24	AC / DC: 24 240 V	8510/112-05-400-250	1.250

Exp	losic	on P	rot	ecti	on
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Explosion Flotection	
Global (IECEx)	
Gas	IECEx BVS 07.0029U
	Ex de IIC
	Ex de l
Europe (ATEX)	
Gas	DMT 00 ATEX E 073 U
	© II 2 G Ex de IIC
	© I M2 Ex de I
Cortifications and so	tificates

Certifications and certificates

Certificates IECEx, ATEX, Belarus (operating authorisation)

Technical Data

Tooliilloai Bata			
Electrical data			
Supply voltage	A1 / A2AC / DC: 24 240 V		
Rated operational	15 400 Hz		
frequency			
Tolerance for supply	-15 +10 %		
voltage	10001		
Duty cycle	100%		
Typical current/power consumption	24 V AC/DC; 33 mA / 0.55 VA		
Remote reset	220 - 240 V AC; 11 mA / 1.6 VA		
Voltage circuit (open-circuit, short-circuit monitoring)	S1 - T2 (Jumper) automatic reset		
Max. no-load voltage	5.5 V		
Control circuit			
Maximum switching voltage	250 V		
Rated operational	AC-12: 230 V 4 A		
current	AC-15: 230 V 3 A		
	DC-12: 24 V 4 A		
	DC-13: 24 V 2 A		
Short-circuit protection	NC 10 A quick gG NO 10 A quick gG		
Mechanical service life	30 million switching cycles		
Electrical life	100,000 operating cycles		
Ambient conditions			
Ambient temperature			
Storage	-40 +85 °C		
Operation at Uc	-20 +40 °C		

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Technical Data

Mechanical data

Material

Enclosure material

Epoxy resin

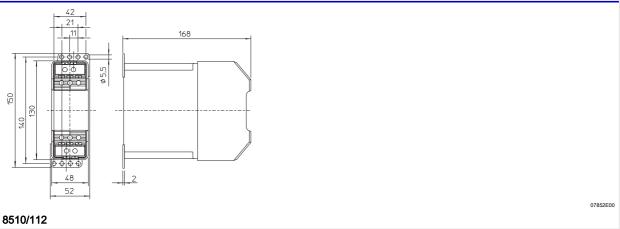
Terminal cover

Polyamide; IP20, finger-contact safety according to IEC/EN 60529

Conductor cross-section Auxiliary contacts

 $\begin{array}{l} 0.75\,\ldots\,1.5\;\text{mm}^2\;\text{flexible}\\ 0.75\,\ldots\,2.5\;\text{mm}^2\;\text{solid} \end{array}$

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.