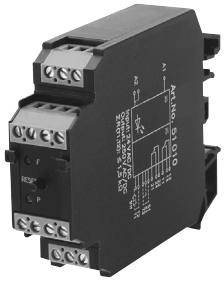
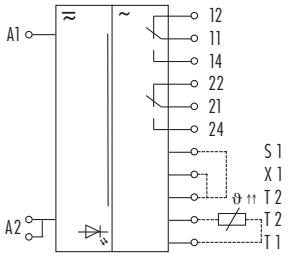
MCVO Motor protection relay

RM

motor protection relay
for monitoring motors
with an integrated temperature sensor



Circuit diagram



Ordering data	**Art.-No.**
Input voltage	1 relays; 2 C/O contacts
24 V DC	**51010**
Input	
Input voltage/ current	24 V DC ± 10 %/100 mA
Status indicator	green LED
Output	
Max. switched voltage	250 V AC/DC
Max. contact current	8 A
Min. load current	10 mA
Max. power rating	2000 VA
Contact material	Ag Cd 0
De-energize/energize delay	< 80 ms/25 ms
Temperature monitoring data	
Total cold resistance (between T1 and T2)	≤ 1.5 kOhm
Operate (relay de-energize)	2.5…3.6 kOhm
Reset (relay energize)	1.5…2.3 kOhm
Fault indicator	red LED
Reset	with push button or remote reset
Sensor wire short-circuit protection	≤ 20 Ohm
General data	
Mech./elect. life	2 x 10^7/load dependend
Max. switching frequency	10 Hz
Test isolation voltage	3.75 kV AC
Temperature range	-20…+60 °C
Mounting method	DIN-rail mounting to EN 60715
Dimension H x W x D	75 x 22.5 x 102 mm
Function description	
	The relay protects and monitors motors temperature sensor to DIN 44081. Temperature resistors will be serial switched and galvanically isolated connected to terminals T1 and T2. Minimal changes of temperature will trip the relay. A red LED shows the fault optically. A bridge link X1/T2 enables fault latching. Via bridge S1/T2, remote resetting can be realised.
Notes	
	Accessories in chapter 3.13