



Function

Control relays active Control relays passive Contact closed Contact open

triggering threshold
reset threshold



R (Ohm)

PTC(1...6) DIN 4408' The TCM_LC is used with PTC sensors (DIN 44081) to provide permanent over temperature protection for motors and other equipment.

Up to 6 PTC's connected in series can be used with one TCM relay. On the application of the supply voltage the output relay pulls in. When the PTC sensors reach their nominal temperature the TCM converts the sudden increase of resistance in a signal which causes the output relay **R** to change over. The red LED **F** starts blinking.

Care must be taken to ensure that long cables connecting PTC's to T1 and T2 are shielded otherwise external electro-magnetic influences can interfere with the correct function of the sensor.



- thermistor motor protection relay using DIN 44081 PTC-sensors
- up to 6 PTC sensors in serie open circuit detection
- DPCO output max. 6A
- fault latching function (TCM)
- LED indicators for power supply and output relay
- 22.5mm or DIN rail mount housing

specification

supply voltage vari	ation	nominal voltage +10% / -20%			
frequeny range		48 - 63 Hz			
duty cycle		100%			
response/delay tim	e	< 300ms			
reset time		< 300ms			
max. measuring vo	ltage	< 2,5V			
max. resistance		1500 Ohm (6 sensors)			
triggering threshol	d	3100 Ohm			
reset threshold		1600 Ohm			
relaytype		1	2		
output relay spec.	230V~	12,0A	8,0A		
le AC-15*	120V~	2,0A	1,6A		
le AC-15*	240V~	2,0A	1,6A		
le DC-13*	24V=	1,5A	1,0A		
expected life time		SPCO	2DPCO		
Mechanisch		1 x 10 ⁶	resp. 1x 10 ⁷ operations		
Elektrisch		1×10^5 resp. 1×10^5 operations			
operating conditio	ns	-20 bis +	-20 bis +60 °C non condensing		
			* EN 60947-5-1 VDE 0435		

ordering information

part no	sup	ply	output	sup. galv. iso*	relaytype	housing types
TCM-LC 230Vac	230V~	2,5VA	SPCO	yes	1	В
TCM-LC 115Vac	115V~	2,5VA	SPCO	yes	1	В
TCM-LC 24Vac	24V~	2,5VA	DPCO	yes	1	В
TCM-LC2 230Vac	230V~	2,5VA	DPCO	yes	2	В
TCM-LC2 115Vac	115V~	2,5VA	DPCO	yes	2	В
TCM-LC2 24Vac	24V~	2,5VA	DPCO	yes	2	В

 $^{\ast}~$ The measurement input is galvanically isolated from the power supply

Supply ≙ U ≙ A1-A2



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