Thermistor overload relays for machine protection, 2 N/O, 24 - 240 V 50 - 400 Hz, 24 - 240 V DC, without reclosing lockout, with 2 sensor circuits



Part no. EMT62 171889

General specifications	Enton Manillar® annian FMTC Thermister and a design
Product name	Eaton Moeller® series EMT6 Thermistor overload relay
Part no.	EMT62
EAN	4015081685141
Product Length/Depth	103 millimetre
Product height	83 millimetre
Product width	23 millimetre
Product weight	0.153 kilogram
Certifications	CSA CSA-C22.2 No. 14 IEC/EN 60947-8 IEC/EN 60947 EN 55011 VDE 0660 IEC/EN 61000-4-2 UL UL 508 CSA Class No.: 3211-03 CSA File No.: 12528 CE UL File No.: E29184 UL Category Control No.: NKCR IEC/EN 61000-4-3
Product Tradename	EMT6
Product Type	Thermistor overload relay
Product Sub Type	None
eatures & Functions	
Electric connection type	Screw connection
Fitted with:	2 sensor circuits
Functions	Test function via separate button Notifications of mains and faults via LED display
Temperature measuring range - min	0 °C
Temperature measuring range - max	0 °C
eneral information	
Degree of protection	IP20
Mounting position	As required
Overvoltage category	III
Pollution degree	3
Product category	EMT6 thermistor overload relay for machine protection
Protection	Finger and back-of-hand proof, Protection against direct contact when actuate from front (EN 50274)
Rated impulse withstand voltage (Uimp)	6000 V AC
Safe isolation	250 V AC, Between the contacts, According to EN 61140 250 V AC, Between the contacts and power supply, According to EN 61140
Shock resistance	10 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
Voltage type	AC/DC
limatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	60 °C
Ambient operating temperature (enclosed) - min	25 °C
Ambient operating temperature (enclosed) - max	45 °C
Ambient storage temperature - min	45 °C
Ambient storage temperature - max	85 °C
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78

Electro magnetic compatibility	
Air discharge	8 kV
Burst impulse	According to IEC/EN 61000-4-4 2 kV, Supply cable 1 kV, Signal cable
Contact discharge	6 kV, Electrostatic discharge (ESD)
Electromagnetic fields	10 V/m at 80 - 1000 MHz (according to IEC EN 61000-4-3) 1 V/m at 2.0 - 2.7 GHz (according to IEC EN 61000-4-3) 3 V/m at 1.4 - 2 GHz (according to IEC EN 61000-4-3)
Immunity to line-conducted interference	10 V (according to IEC/EN 61000-4-6)
Radio interference class	Class B (EN 55011)
Surge rating	2 kV, symmetrical, power pulses (Surge), EMC 4 kV, asymmetrical, power pulses (Surge), EMC According to IEC/EN 61000-4-5, power pulses (Surge), EMC
Terminal capacities	
Terminal capacity	$2 \times (0.5 - 1.5) \text{ mm}^2$, solid 20 - 14 AWG, solid or stranded $2 \times (0.5 - 1.5) \text{ mm}^2$, flexible with ferrule $1 \times (0.5 - 2.5) \text{ mm}^2$, solid $1 \times (0.5 - 2.5) \text{ mm}^2$, flexible with ferrule
Screw size Screw size	M3.5, Terminal screw
Screwdriver size	1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
Tightening torque	1.2 Nm, Screw terminals
Electrical rating	
Conventional thermal current ith of auxiliary contacts (1-pole, open)	6 A
Pick-up voltage	0.85 - 1.1 V x U#
Power consumption	2 W at DC 3.5 VA at AC
Rated control supply voltage (Us) at AC, 50 Hz - min	24 V
Rated control supply voltage (Us) at AC, 50 Hz - max	240 V
Rated control supply voltage (Us) at AC, 60 Hz - min	24 V
Rated control supply voltage (Us) at AC, 60 Hz - max	240 V
Rated control supply voltage (Us) at DC - min	24 V
Rated control supply voltage (Us) at DC - max	240 V
Rated insulation voltage (Ui)	240 V
Rated operational current (le)	3 A at AC-15, 220 V 230 V 240 V (N0) 1 A at AC-15, 380 V 400 V 415 V (N0) 3 A at AC-15, 220 V 230 V 240 V 3 A at AC-14, 380 V 400 V 415 V (N0) 3 A at AC-14, 400 V (NC)
Rated operational voltage (Ue) - max	240 V
Reset resistance	1600 0
Short-circuit protection rating	Max. 6 A gG/gL, Fuse, Contacts
Trip resistance	3600 0
Voltage rating - max	600 V
Contacts	
Number of contacts (change-over contacts)	0
Number of contacts (normally closed contacts)	0
Number of contacts (normally open contacts)	2
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0 W
Rated operational current for specified heat dissipation (In)	0 A
Static heat dissipation, non-current-dependent Pvs	1 W

Technical data ETIM 9.0

Relays (EG000019) / Temperature monitoring relay (EC001446)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Monitoring equipment (low-voltage switch technology) / Temperature monitoring equipment (ecl@ss13-27-37-18-10 [AKF104019])

With detachable clamps No Voltage type (supply voltage) 4 Z/DC Supply voltage AC 50 Hz V 24 - 240 Supply voltage AC 60 Hz V 24 - 240 Supply voltage DC V 24 - 240 Number of measuring circuits 2 2 External reset possible No No External reset possible No 750 - 12000 Resistance measuring range °C 0 - 0 Resistance measuring range °C 750 - 12000 Connection type auxiliary circuit Screw connection Number of contacts as normally closed contact C 0 Number of contacts as change-over contact C 0 Voltage type (operating voltage) C 4.70C Operating voltage AC 50 Hz V 24 - 240 Operating voltage AC 60 Hz V 24 - 240 Operating voltage AC 60 Hz V 24 - 240 Operating voltage AC 60 Hz V 24 - 240 Operating voltage AC 60 Hz V 24 - 240 Operating voltage AC 60			
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Number of contacts as change-over contact Voltage type (operating voltage) Operating voltage AC 50 Hz Operating voltage AC 60 Hz Operating voltage DC Rated switch current A 6 Width mm 23 Height Operating voltage AC 60 Hz Operating voltage AC 60 Hz Number of contacts as change-over contact AC/DC AC/DC 24 - 240 24 - 240 24 - 240 A 6 Width mm 23 Mm 83	Number of contacts as normally closed contact		0
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Operating voltage AC 60 Hz V 24 - 240 Operating voltage DC Rated switch current A 6 Width mm 23 Height mm 83	Voltage type (operating voltage)		AC/DC
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Rated switch current A 6 Width mm 23 Height mm 83	Operating voltage AC 60 Hz	V	24 - 240
Width mm 23 Height mm 83	Operating voltage DC	V	24 - 240
Height mm 83	Rated switch current	А	6
	Width	mm	23
Depth mm 103	Height	mm	83
	Depth	mm	103