

**Part no.**                    **EMT62**  
**171889**

<b>General specifications</b>		
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
<b>Features &amp; Functions</b>		
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
<b>General information</b>		
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 actuated 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
<b>Climatic environmental conditions</b>		
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

<b>Electro magnetic compatibility</b>		
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
<b>Terminal capacities</b>		
Terminal capacity		2 x (0.5 - 1.5) mm <sup>2</sup> , solid 20 - 14 AWG, solid or stranded 2 x (0.5 - 1.5) mm <sup>2</sup> , flexible with ferrule 1 x (0.5 - 2.5) mm <sup>2</sup> , solid 1 x (0.5 - 2.5) mm <sup>2</sup> , flexible with ferrule
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
<b>Electrical rating</b>		
Conventional thermal current I <sub>th</sub> of auxiliary contacts (1-pole, open)		6 A
Pick-up voltage		0.85 - 1.1 V x U <sub>#</sub>
Power consumption		2 W at DC 3.5 VA at AC
Rated control supply voltage (U <sub>s</sub> ) at AC, 50 Hz - min		24 V
Rated control supply voltage (U <sub>s</sub> ) at AC, 50 Hz - max		240 V
Rated control supply voltage (U <sub>s</sub> ) at AC, 60 Hz - min		24 V
Rated control supply voltage (U <sub>s</sub> ) at AC, 60 Hz - max		240 V
Rated control supply voltage (U <sub>s</sub> ) at DC - min		24 V
Rated control supply voltage (U <sub>s</sub> ) at DC - max		240 V
Rated insulation voltage (U <sub>i</sub> )		240 V
Rated operational current (I <sub>e</sub> )		3 A at AC-15, 220 V 230 V 240 V (NO) 1 A at AC-15, 380 V 400 V 415 V (NO) 3 A at AC-15, 220 V 230 V 240 V 3 A at AC-14, 380 V 400 V 415 V (NO) 3 A at AC-14, 400 V (NC)
Rated operational voltage (U <sub>e</sub> ) - max		240 V
Reset resistance		1600 Ω
Short-circuit protection rating		Max. 6 A gG/gL, Fuse, Contacts
Trip resistance		3600 Ω
Voltage rating - max		600 V
<b>Contacts</b>		
Number of contacts (change-over contacts)		0
Number of contacts (normally closed contacts)		0
Number of contacts (normally open contacts)		2
<b>Design verification</b>		
Equipment heat dissipation, current-dependent P <sub>vid</sub>		0 W
Heat dissipation capacity P <sub>diss</sub>		0 W
Heat dissipation per pole, current-dependent P <sub>vid</sub>		0 W
Rated operational current for specified heat dissipation (I <sub>n</sub> )		0 A
Static heat dissipation, non-current-dependent P <sub>vs</sub>		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 (ecI@ss13-27-37-18-10 [AKF104019])

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