

**Thermistor overload relay for machine protection, 1W , 24-240V50/60Hz,  
24-240VDC, without reclosing lockout**

**Part no.** EMT6  
066166  
**EL Number** 4110419  
**(Norway)**

Product name	Eaton Moeller® series EMT6 Thermistor overload relay
Part no.	EMT6
EAN	4015080661665
Product Length/Depth	103 millimetre
Product height	83 millimetre
Product width	23 millimetre
Product weight	0.128 kilogram
Certifications	UL 508 CSA Class No.: 3211-03 IEC/EN 61000-4-3 IEC/EN 60947-8 EN 55011 UL CE UL Category Control No.: NKCR CSA IEC/EN 60947 IEC/EN 61000-4-2 UL File No.: E29184 CSA File No.: 12528 VDE 0660 CSA-C22.2 No. 14
Product Tradename	EMT6
Product Type	Thermistor overload relay
Product Sub Type	None
Electric connection type	Screw connection
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
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 4000 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
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

Air discharge		8 kV
Burst impulse		According to IEC/EN 61000-4-4 1 kV, Signal cable 2 kV, Supply cable
Contact discharge		6 kV
Electromagnetic fields		10 V/m at 80 - 1000 MHz (according to IEC EN 61000-4-3) 3 V/m at 1.4 - 2 GHz (according to IEC EN 61000-4-3) 1 V/m at 2.0 - 2.7 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		According to IEC/EN 61000-4-5, power pulses (Surge), EMC 2 kV, symmetrical, power pulses (Surge), EMC 4 kV, asymmetrical, power pulses (Surge), EMC
Terminal capacity		2 x (0.5 - 1.5) mm <sup>2</sup> , solid 1 x (0.5 - 2.5) mm <sup>2</sup> , solid 1 x (0.5 - 2.5) mm <sup>2</sup> , flexible with ferrule 2 x (0.5 - 1.5) mm <sup>2</sup> , flexible with ferrule 20 - 14 AWG, solid or stranded
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
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> )		400 V
Rated operational current (I <sub>e</sub> )		1 A at AC-15, 380 V 400 V 415 V (NC) 3 A at AC-14, 380 V 400 V 415 V (NO) 3 A at AC-15, 220 V 230 V 240 V (NO) 3 A at AC-15, 220 V 230 V 240 V 3 A at AC-14, 300 V (NO) 1 A at AC-15, 380 V 400 V 415 V (NO) 3 A at AC-14, 300 V (NC) 3 A at AC-14, 400 V (NC) 3 A at AC-14, 380 V 400 V 415 V (NC) 1 A at AC-15, 300 V (NO) 3 A at AC-15, 220 V 230 V 240 V (NC) 1 A at AC-15, 300 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
Number of contacts (change-over contacts)		0
Number of contacts (normally closed contacts)		1
Number of contacts (normally open contacts)		1
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>		0.8 W

## Technical data ETIM 8.0

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 (ec1@ss10.0.1-27-37-18-10 [AKF104014])

Type of electric connection			Screw connection
Rated control supply voltage Us at AC 50HZ		V	24 - 240
Rated control supply voltage Us at AC 60HZ		V	24 - 240
Rated control supply voltage Us at DC		V	24 - 240
Voltage type for actuating			AC/DC
With detachable clamps			No
Number of measuring circuits			1
Error registration possible			No
External reset possible			No
Number of contacts as normally closed contact			1
Number of contacts as normally open contact			1
Number of contacts as change-over contact			0
Temperature measuring range		°C	0 - 0
Resistance measuring range		Ohm	750 - 12,000
Width		mm	23
Height		mm	83
Depth		mm	103