



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
Catalog No. 171889
Alternate Catalog No. EMT62

Delivery program

Product range			EMT6 thermistor overload relay for machine protection
Function			Without manual reset Mains and fault LED display with 2 sensor circuits Test button
Rated operational current			
AC-15			
240 V	I_e	A	3
AC--14			
400 V	I_e	A	3
conventional thermal current	I_{th}	A	6
Rated control voltage	U_s	V	24 - 240 V 50 - 400 Hz 24 - 240 V DC
Notes			
Observe manual MN03407006Z-DE/EN.			
Can be snap fitted on a top-hat rail to IEC/EN 60715.			

Technical data

General

Standards			IEC/EN 60947, VDE 0660, EN 55011
Climatic proofing			Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			
Open		°C	-25 - +60
Enclosed		°C	- 25 - 45
Storage		°C	- 45 - 85
Mounting position			As required
Weight		kg	0.15
Mechanical shock resistance half-sinusoidal shock 10 ms to IEC 60068-2-27		g	10
Degree of Protection			IP20
Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Safe isolation to EN 61140			
between the contacts		V AC	250
between contacts and power supply		V AC	250

Auxiliary and control circuits

Rated impulse withstand voltage	U_{imp}	V AC	6000
Overvoltage category/pollution degree			III/3
Terminal capacities Auxiliary and control circuits			
Solid		mm ²	1 x (0.5 - 2.5) 2 x (0.5 - 1.5)
Flexible with ferrule		mm ²	1 x (0.5 - 2.5) 2 x (0.5 - 1.5)
Solid or stranded		AWG	20 - 14
Terminal screw			M3.5
Tightening torque		Nm	1.2
Tools			
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	1 x 6

Auxiliary power circuit

Rated insulation voltage	U_i	V	400
Rated operational current	I_e	A	
AC--14			
Make contact			
380 V 400 V 415 V	I_e	A	3
AC-15			
Make contact			
220 V 230 V 240 V	I_e	A	3
380 V 400 V 415 V	I_e	A	1
Max. short-circuit protective device			
Fuse	gG/gL	A	6

Control circuit

Rated insulation voltage	U_i	V	240
Rated operational voltage	U_e	V	240
Pick-up and drop-out values		$x U_e$	0.85 - 1.1
Power consumption			
AC		VA	3.5
DC		W	2
Trip at approx.		Ω	3600
Recovery at approx.		Ω	1600
Sensor circuit			Sensor circuit parameters at U_S and +20 °C: max. Cable length to sensor 250m (not insulated) Total cold resistance $\sum R_K \leq 1500 \Omega$ - R_{T1-T2} (T1, T2 shorted): $I_{T1-T2} = 1.9 \text{ mA}$ - R_{T1-T2} (4 k Ω): $U_{T1-T2} = \text{max. } 3 \text{ V DC}$, $I_{T1-T2} = \text{max. } 0.8 \text{ mA}$ - R_{T1-T2} (T1, T2 open): $U_{T1-T2} = 5.1 \text{ V DC typ. (5.5 V DC max.)}$

Electromagnetic compatibility (EMC)

Electrostatic discharge (ESD)			
applied standard			IEC/EN 61000-4-2
Air discharge		kV	8
Contact discharge		kV	6
Electromagnetic fields (RFI)			
applied standard			IEC/EN 61000-4-3
		V/m	80 - 1000 MHz: 10 1.4 - 2 GHz: 3 2.0 - 2.7 GHz: 1
Radio interference suppression			EN 55011 Class B
Burst		kV	Supply cables: 2 Signal cables: 1 according to IEC/EN 61000-4-4
power pulses (Surge)			2 kV (symmetrical) 4 kV (asymmetrical) according to IEC/EN 61000-4-5
Immunity to line-conducted interference to (IEC/EN 61000-4-6)		V	10

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	0
Heat dissipation per pole, current-dependent	P_{vid}	W	0
Equipment heat dissipation, current-dependent	P_{vid}	W	0
Static heat dissipation, non-current-dependent	P_{vs}	W	1
Heat dissipation capacity	P_{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	60

Technical data ETIM 7.0

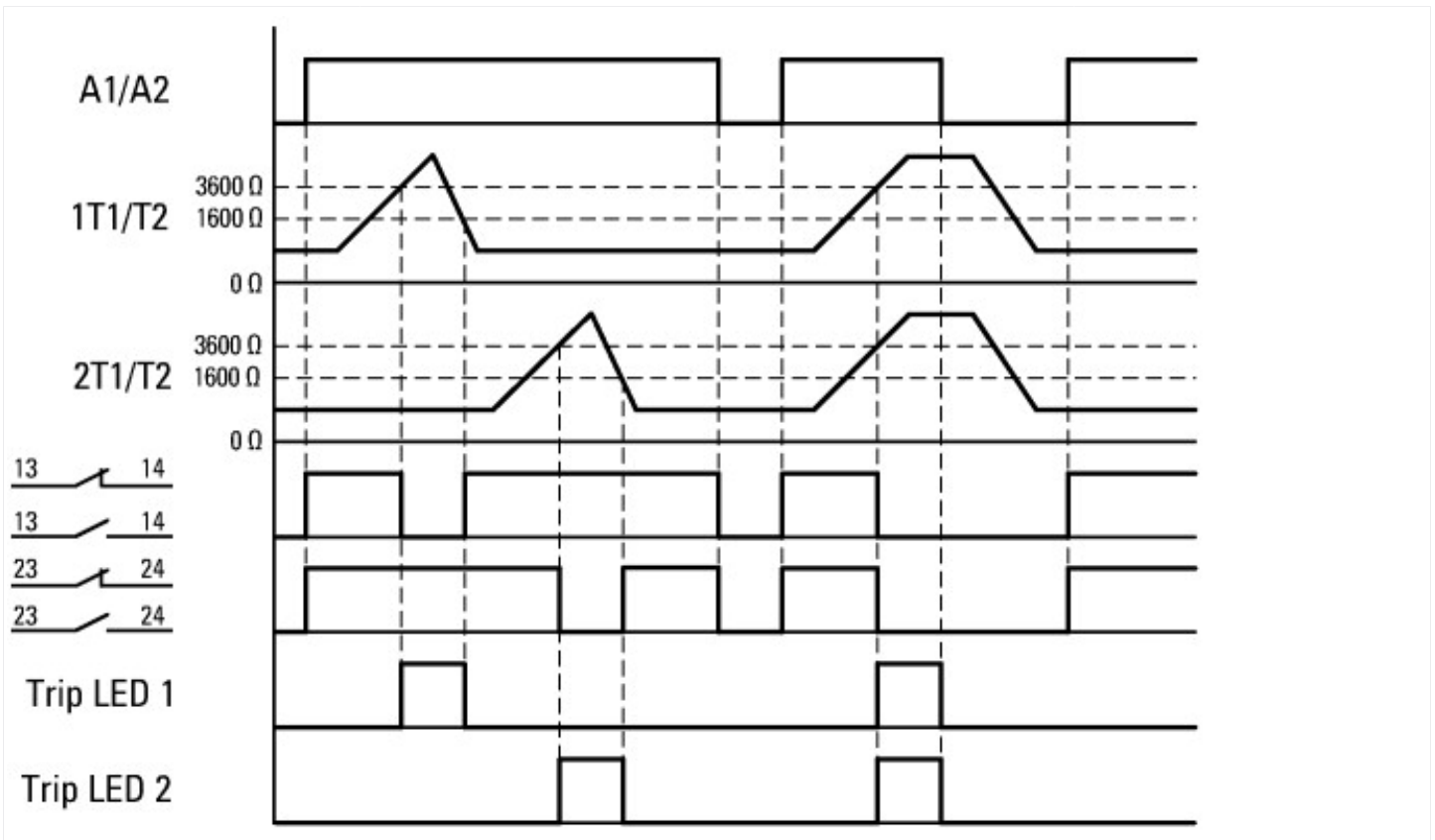
Relays (EG000019) / Temperature monitoring relay (EC001446)

Type of electric connection		Screw connection
Rated control supply voltage U_s at AC 50HZ	V	24 - 240
Rated control supply voltage U_s at AC 60HZ	V	24 - 240
Rated control supply voltage U_s at DC	V	24 - 240
Voltage type for actuating		AC/DC
With detachable clamps		No
Number of measuring circuits		2
Error registration possible		No
External reset possible		No
Number of contacts as normally closed contact		0
Number of contacts as normally open contact		2
Number of contacts as change-over contact		0
Temperature measuring range	°C	0 - 0
Resistance measuring range	Ohm	750 - 12000
Width	mm	23
Height	mm	84
Depth	mm	104

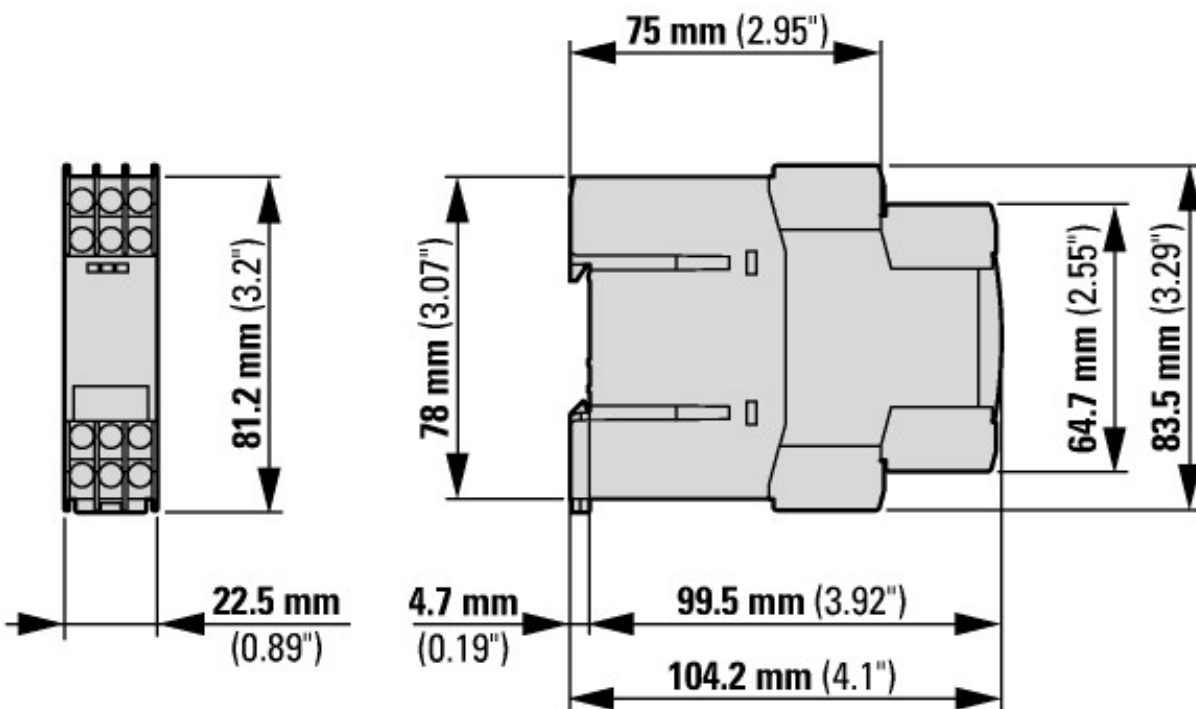
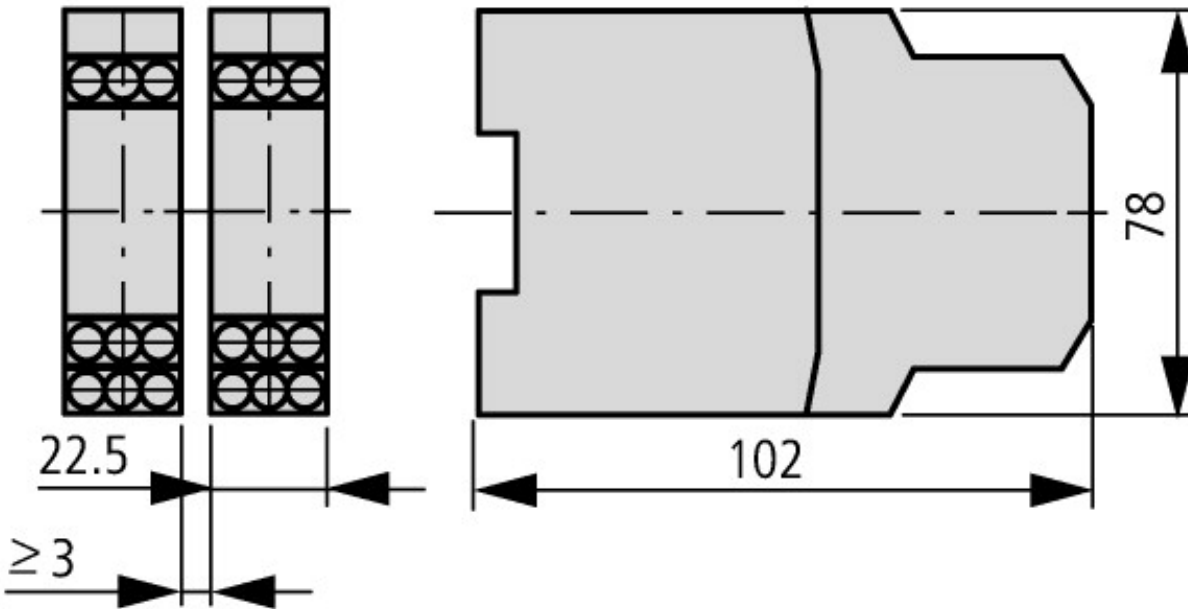
Approvals

Product Standards		UL 508; CSA-C22.2 No. 14; IEC/EN 60947-8; CE marking
UL File No.		E29184
UL Category Control No.		NKCR
CSA File No.		12528
CSA Class No.		3211-03
North America Certification		UL listed, CSA certified
Specially designed for North America		No
Max. Voltage Rating		600 V AC
Degree of Protection		IEC: IP20, UL/CSA Type: -

Characteristics



Dimensions



Applies to release 001 and higher

Additional product information (links)

IL049002ZU thermistor overload relay for machine protection

IL049002ZU thermistor overload relay for machine protection

https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL049002ZU2019_07.pdf

MN03407006Z (AWB2327-1446) EMT6 machine protection relays - overload monitoring for machines in Ex e areas

MN03407006Z (AWB2327-1446) EMT6 machine protection relays - overload monitoring for machines in Ex e areas - Deutsch / English

https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN03407006Z_DE_EN.pdf