


**Thermistor overload relay for machine protection, multi-function,
24-240V50/60HZ/DC**



Part no. EMT6-DBK
Article no. 066168
Catalog No. EMT6-DBK

Delivery programme

Product range				EMT6 thermistor overload relay for machine protection
Description				Multifunction device
Function				Selector switch with/without manual reset Trip with short-circuit in the sensor cable Zero-voltage safe For manual or remote resetting Test button Short-circuit recognition and zero-voltage safety can be deactivated Mains and fault LED display
Rated operational current				
AC-15				
240 V	I_e	A		3
AC--14				
300 V	I_e	A		3
400 V	I_e	A		3
				Value applies starting with release 001.
conventional thermal current	I_{th}	A		6
Rated control voltage	U_s	V		24 - 240 V 50 - 400 Hz 24 - 240 V DC
Notes				
 <p>BVS 14 ATEX F003 X II(2)G [Ex e] [Ex d] [Ex px] II(2)D [Ex t] [Ex p] Observe manual MN03407006Z-DE/EN. Can be snap fitted on a top-hat rail to IEC/EN 60715.</p>				

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	4000
Rated impulse withstand voltage	U_{imp}	V AC	6000
			Value applies starting with release 001.
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
			Value applies starting with release 001.
Rated operational current	I_e	A	
AC--14			
Make contact			
300 V	I_e	A	3
380 V 400 V 415 V	I_e	A	3
			Value applies starting with release 001.
Break contact			
300 V	I_e	A	3
380 V 400 V 415 V	I_e	A	3
			Value applies starting with release 001.
AC-15			
Make contact			
220 V 230 V 240 V	I_e	A	3
300 V	I_e	A	1
380 V 400 V 415 V	I_e	A	1
			Value applies starting with release 001.
Break contact			
220 V 230 V 240 V	I_e	A	3
300 V	I_e	A	1
380 V 400 V 415 V	I_e	A	1
			Value applies starting with release 001.
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

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

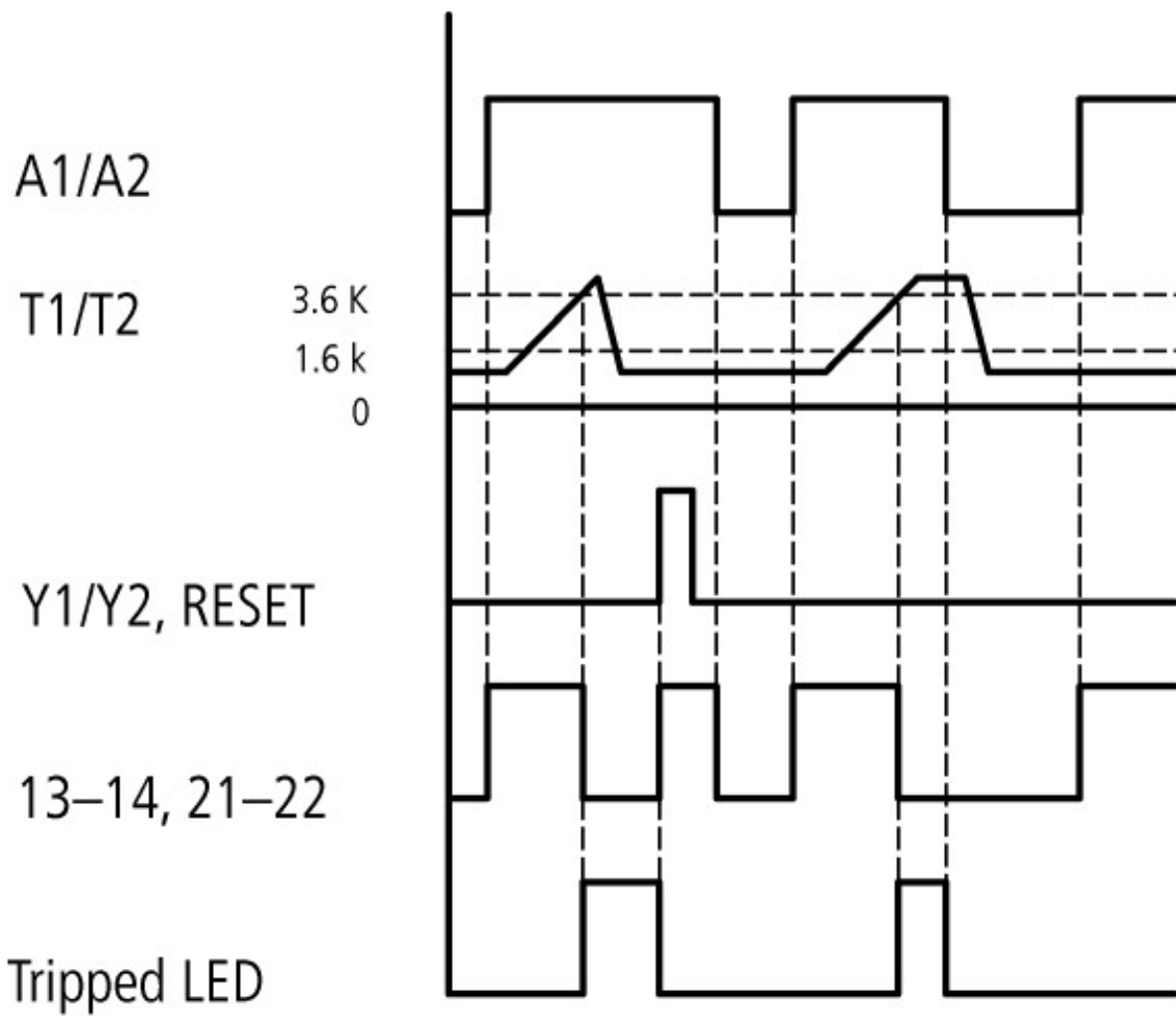
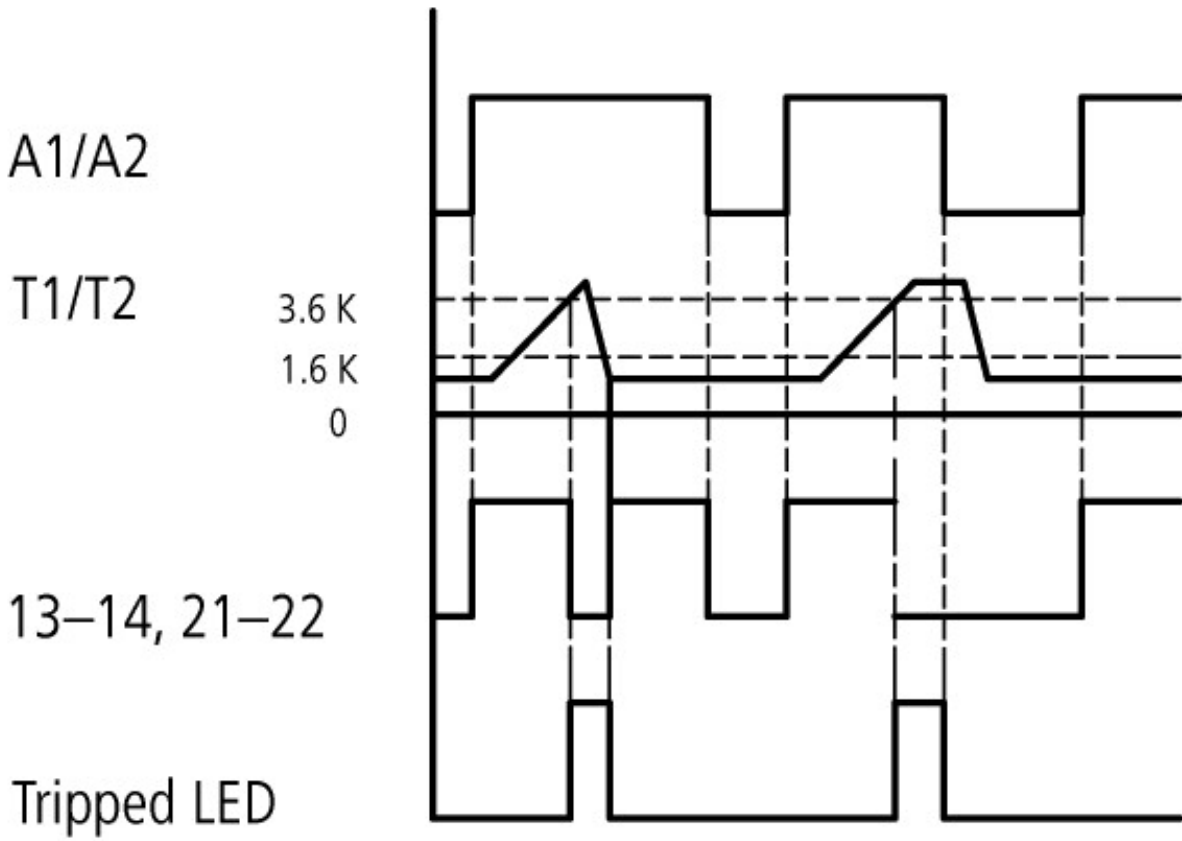
Technical data for design verification			
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	60

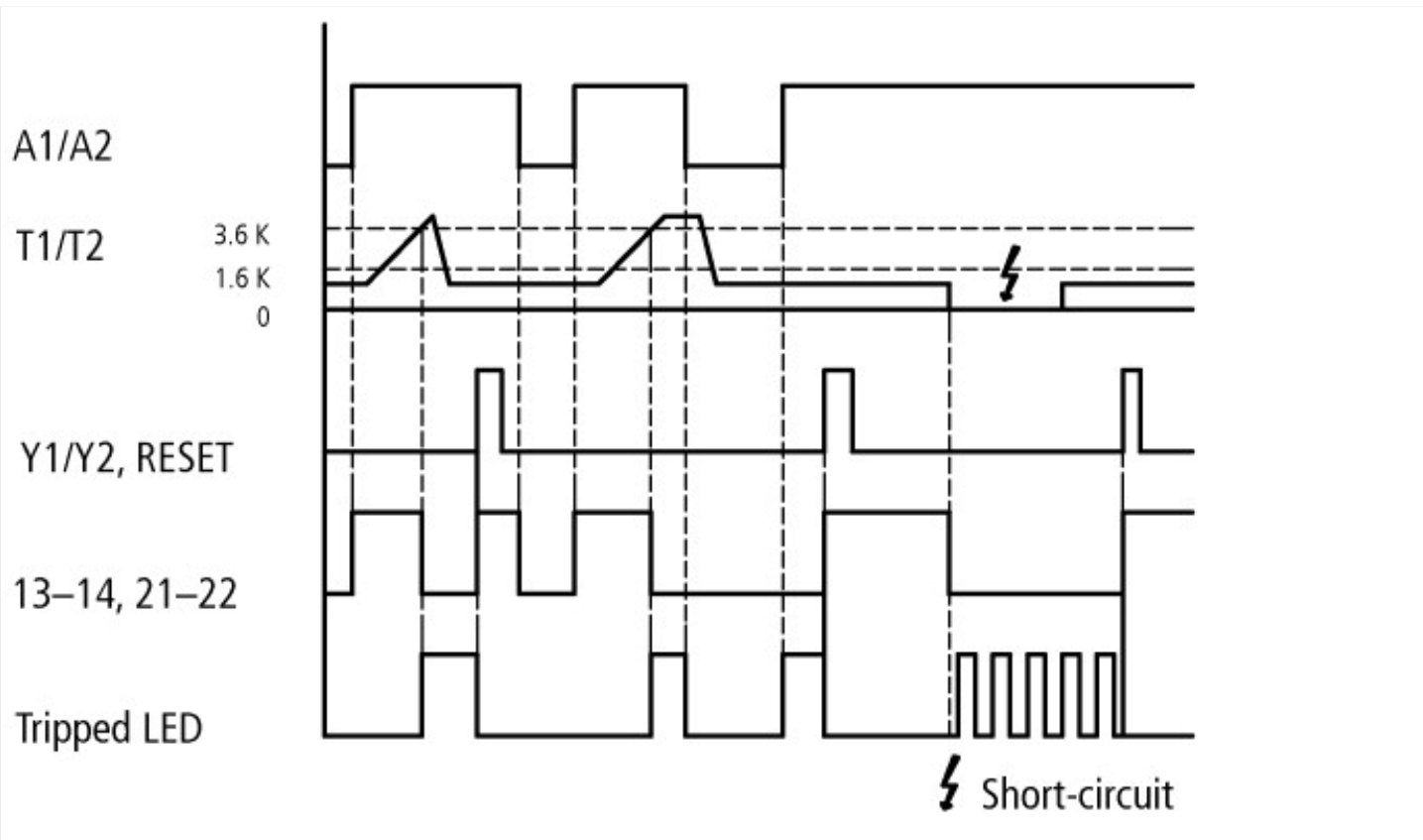
Technical data ETIM 6.0

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@ss8.1-27-37-18-10 [AKF104011])			
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			Yes
External reset possible			Yes
Number of contacts as normally closed contact			1
Number of contacts as normally open contact			1
Number of contacts as change-over contact			0
Width		mm	23
Height		mm	84
Depth		mm	104

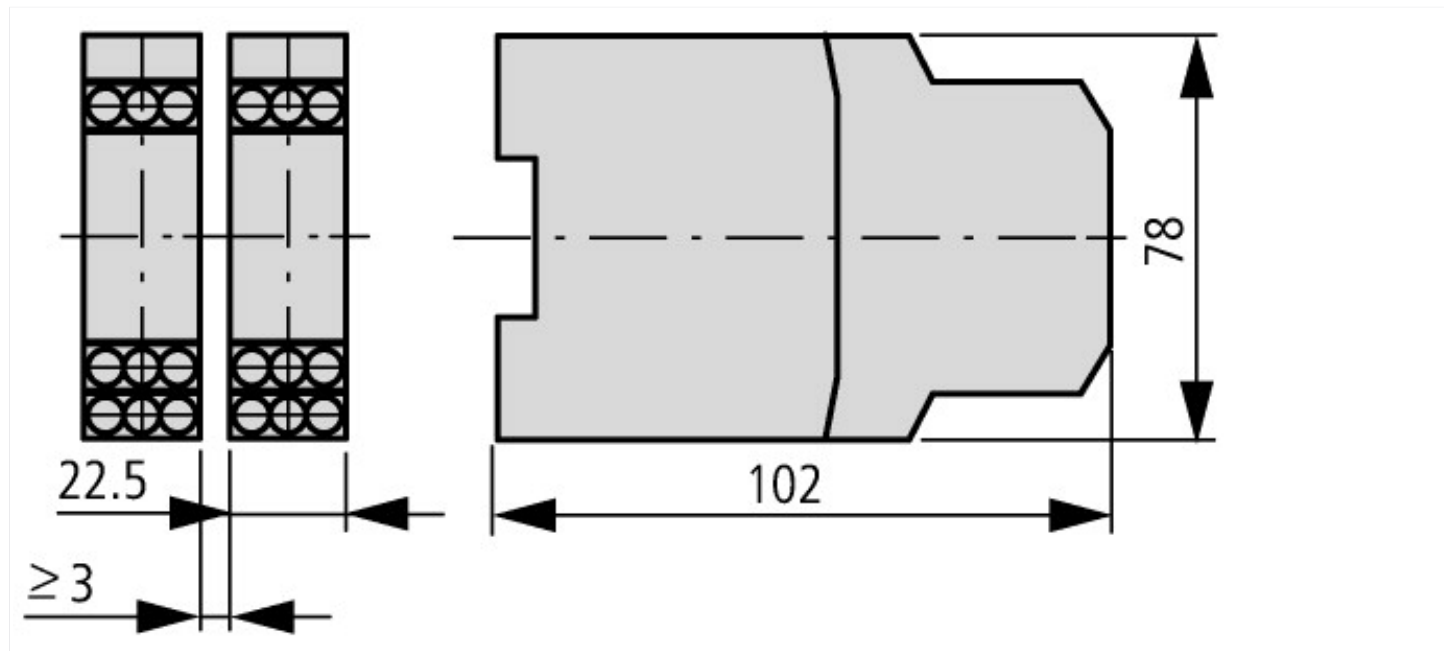
Approvals

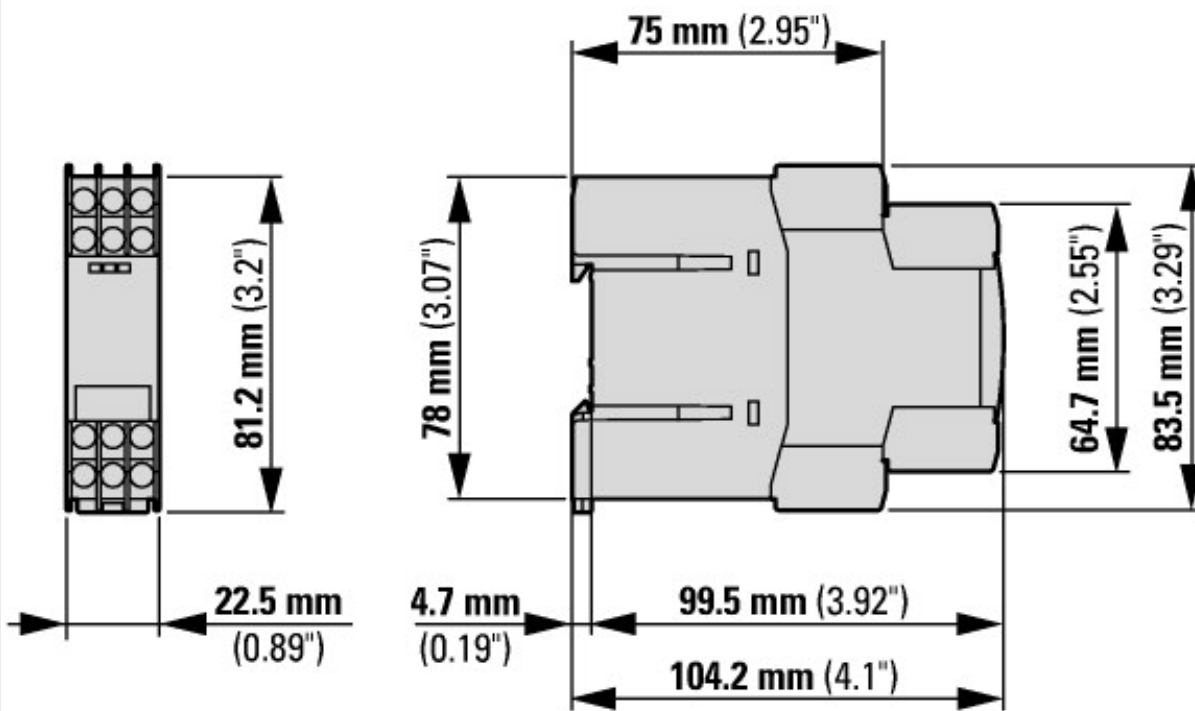
Product Standards			UL 508; CSA-C22.2 No. 14; IEC/EN 60947-8; CE marking
UL File No.			E29184
UL Category Control No.			NKCR
CSA File No.			12528
CSA Class No.			3211-03
North America Certification			UL listed, CSA certified
Specially designed for North America			No
Max. Voltage Rating			600 V AC
Degree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





Dimensions





Applies to release 001 and higher

Additional product information (links)

IL03407100Z (AWA2327-1454) thermistor overload relay for machine protection

IL03407100Z (AWA2327-1454) thermistor overload relay for machine protection

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407100Z2014_11.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 - English

ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN03407006Z_DEEN.pdf

terminal markings and sensor circuit

<http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=6.21>

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