

Specifications

Eaton 269471

Eaton Moeller® series EMT6 Thermistor overload relay for machine protection, 1N/O+1N/C, 24-240VAC/DC, with reclosing lockout

General specifications

PRODUCT NAME	Eaton Moeller® series EMT6 Thermistor overload relay
CATALOG NUMBER	269471
MODEL CODE	EMT6-KDB
EAN	4015082694715
PRODUCT LENGTH/DEPTH	103 mm
PRODUCT HEIGHT	83 mm
PRODUCT WIDTH	23 mm
PRODUCT WEIGHT	0.132 kg
CERTIFICATIONS	CSA File No.: 12528 IEC/EN 60947 CSA-C22.2 No. 14 IEC/EN 61000-4-3 CSA CSA Class No.: 3211-03 IEC/EN 60947-8 IEC/EN 61000-4-2 CE UL 508 UL File No.: E29184 UL UL Category Control No.: NKCR VDE 0660 EN 55011

Features & Functions

ELECTRIC CONNECTION TYPE

Screw connection

FUNCTIONS

Manual reset
Notifications of mains and faults via LED display
Short-circuit in the sensor cable
Test function via separate button
External reset possible
Manual or remote resetting

TEMPERATURE MEASURING RANGE - MIN

0 °C

TEMPERATURE MEASURING RANGE - MAX

0 °C

General

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

Climatic 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

Terminal capacities

TERMINAL CAPACITY	1 x (0.5 - 2.5) mm ² , flexible with ferrule 1 x (0.5 - 2.5) mm ² , solid 2 x (0.5 - 1.5) mm ² , flexible with ferrule 20 - 14 AWG, solid or stranded 2 x (0.5 - 1.5) mm ² , solid
SCREW SIZE	M3.5, Terminal screw
SCREWDRIVER SIZE	2, Terminal screw, Pozidriv screwdriver 1 x 6 mm, Terminal screw, Standard screwdriver
TIGHTENING TORQUE	1.2 Nm, Screw terminals

Electro magnetic compatibility

AIR DISCHARGE	8 kV
BURST IMPULSE	1 kV, Signal cable 2 kV, Supply cable According to IEC/EN 61000-4-4
CONTACT DISCHARGE	6 kV, Electrostatic discharge (ESD)
ELECTROMAGNETIC FIELDS	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) 10 V/m at 80 - 1000 MHz (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 According to IEC/EN 61000-4-5, power pulses (Surge), EMC 4 kV, asymmetrical, power pulses (Surge), EMC

Electrical rating

CONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)	6 A
PICK-UP VOLTAGE	0.85 - 1.1 V x U _e
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	240 V

VOLTAGE (US) AT AC, 60 HZ - MAX	
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	240 V
RATED INSULATION VOLTAGE (UI)	400 V
RATED OPERATIONAL CURRENT (IE)	3 A at AC-14, 380 V 400 V 415 V (NC)
	1 A at AC-15, 300 V (NC)
	3 A at AC-14, 400 V (NC)
	3 A at AC-14, 300 V (NO)
	1 A at AC-15, 300 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, 300 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)
	1 A at AC-15, 380 V 400 V 415 V (NC)
	3 A at AC-15, 220 V 230 V 240 V (NC)
RATED OPERATIONAL VOLTAGE (UE) - 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

Contacts	
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	1

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	0.8 W
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Resources

BROCHURES	EMR6 - EMT6 - ETR4 brochure
CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
CHARACTERISTIC CURVE	eaton-tripping-emt6-thermistor-overload-relay-characteristic-curve.eps
DECLARATIONS OF CONFORMITY	DA-DC-00003984.pdf DA-DC-00004614.pdf
DRAWINGS	eaton-tripping-thermistor-relay-emt6-dimensions.eps eaton-tripping-devices-relay-emt6-thermistor-overload-relay-dimensions.eps eaton-tripping-devices-relay-emt6-thermistor-overload-relay-3d-drawing-002.eps
ECAD MODEL	ETN.EMT6-KDB
INSTALLATION INSTRUCTIONS	eaton-emt6-thermistor-overload-motor-protection-relays-instruction-leaflet-il03407100z.pdf
MANUALS AND USER GUIDES	MN03407006Z DE EN
MCAD MODEL	DA-CS-emt6.db DA-CD-emt6.db
WIRING DIAGRAMS	eaton-tripping-devices-auto-mode-emt6-thermistor-overload-relay-wiring-diagram.eps

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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