

Specifications



Eaton 269470

Eaton Moeller® series EMT6 Thermistor overload relay for machine protection, 1N/O+1N/C, 24-240VAC/DC, without reclosing lockout

General specifications

PRODUCT NAME	Eaton Moeller® series EMT6 Thermistor overload relay
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CATALOG NUMBER	269470
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MODEL CODE	EMT6-K
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EAN	4015082694708
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PRODUCT LENGTH/DEPTH	103 mm
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PRODUCT HEIGHT	83 mm
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PRODUCT WIDTH	23 mm
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PRODUCT WEIGHT	0.13 kg
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CERTIFICATIONS	CSA CSA Class No.: 3211-03 IEC/EN 60947-8 UL Category Control No.: NKCR UL File No.: E29184 VDE 0660 CSA File No.: 12528 EN 55011 IEC/EN 61000-4-3 CE IEC/EN 61000-4-2 CSA-C22.2 No. 14 UL UL 508 IEC/EN 60947
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Powering Business Worldwide

Climatic environmental conditions

**AMBIENT OPERATING
TEMPERATURE - MAX** 60 °C

**AMBIENT STORAGE
TEMPERATURE - MAX** 85 °C

**AMBIENT OPERATING
TEMPERATURE - MIN** -25 °C

**AMBIENT OPERATING
TEMPERATURE
(ENCLOSED) - MAX** 45 °C

**AMBIENT OPERATING
TEMPERATURE
(ENCLOSED) - MIN** -25 °C

**AMBIENT STORAGE
TEMPERATURE - MIN** -45 °C

CLIMATIC PROOFING Damp heat, cyclic, to IEC 60068-2-30
Damp heat, constant, to IEC 60068-2-78

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

Contacts

**NUMBER OF CONTACTS
(CHANGE-OVER
CONTACTS)** 0

**NUMBER OF CONTACTS
(NORMALLY CLOSED
CONTACTS)** 1

**NUMBER OF CONTACTS
(NORMALLY OPEN
CONTACTS)** 1

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 - MAX** 240 V

**RATED CONTROL SUPPLY
VOLTAGE (US) AT AC, 50
HZ - MIN** 24 V

**RATED CONTROL SUPPLY
VOLTAGE (US) AT AC, 60
HZ - MAX** 240 V

**RATED CONTROL SUPPLY
VOLTAGE (US) AT AC, 60
HZ - MIN** 24 V

**RATED CONTROL SUPPLY
VOLTAGE (US) AT DC -
MAX** 240 V

**RATED CONTROL SUPPLY
VOLTAGE (US) AT DC -
MIN** 24 V

**RATED INSULATION
VOLTAGE (UI)** 400 V

**RATED OPERATIONAL
CURRENT (IE)** 3 A at AC-14, 400 V (NC)
3 A at AC-14, 380 V 400 V

	415 V (NO) 1 A at AC-15, 300 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 (NO) 3 A at AC-14, 300 V (NO) 1 A at AC-15, 300 V (NC) 3 A at AC-14, 300 V (NC) 3 A at AC-14, 380 V 400 V 415 V (NC) 1 A at AC-15, 380 V 400 V 415 V (NC) 3 A at AC-15, 220 V 230 V 240 V (NC) 3 A at AC-15, 220 V 230 V 240 V
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

Electro magnetic compatibility

AIR DISCHARGE	8 kV
BURST IMPULSE	2 kV, Supply cable 1 kV, Signal 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	4 kV, asymmetrical, power pulses (Surge), EMC According to IEC/EN 61000-4-5, power pulses (Surge), EMC 2 kV, symmetrical, power pulses (Surge), EMC

Features & functions

ELECTRIC CONNECTION TYPE	Screw connection
FUNCTIONS	Notifications of mains and faults via LED display Short-circuit in the sensor cable Test function via separate button

General information

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)	4000 V AC 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

Terminal capacities

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

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	eaton-thermistor-overload-relay-declaration-of-conformity-eu251529en.pdf eaton-thermistor-overload-relay-declaration-of-conformity-uk251011en.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.eps
ECAD MODEL	ETN.EMT6-K
INSTALLATION INSTRUCTIONS	eaton-emt6-thermistor-overload-motor-protection-relays-instruction-leaflet-il03407100z.pdf
MANUALS AND USER GUIDES	MN03407006Z_DE_EN
MCAD MODEL	eaton-emt6-3d-model.stp eaton-emt6-drawing.dwg DA-CD-emt6
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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