Specifications

Eaton 269471

Catalog Number: 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

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

Powering Business Worldwide

Product specifications

Air discharge

8 kV

Electric connection type

Screw connection

Pollution degree

3

Power consumption

2 W at DC

3.5 VA at AC

Burst impulse

1 kV, Signal cable

2 kV, Supply cable

According to IEC/EN 61000-4-4

Climatic proofing

Damp heat, cyclic, to IEC 60068-2-30

Damp heat, constant, to IEC 60068-2-78

Rated impulse withstand voltage (Uimp)

6000 V AC

4000 V AC

Ambient operating temperature - max

60 °C

Ambient operating temperature - min

-25 °C

Ambient operating temperature (enclosed) - max

45 °C

Ambient operating temperature (enclosed) - min

25 °C

Ambient storage temperature - max

85 °C

Ambient storage temperature - min

45 °C

Conventional thermal current ith of auxiliary contacts (1-pole, open)

6 A

Equipment heat dissipation, current-dependent Pvid

0 W

Heat dissipation capacity Pdiss

Resources

Brochures

EMR6 - EMT6 - ETR4 brochure

Catalogs

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-devices-relay-emt6-thermistor-overload-relay-dimensions.eps

eaton-tripping-thermistor-relay-emt6-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-CD-emt6_db

DA-CS-emt6_db

Wiring diagrams

eaton-tripping-devices-auto-mode-emt6-thermistor-overload-relay-wiring-diagram.eps

0 W

Heat dissipation per pole, current-dependent Pvid

0 W

Number of contacts (change-over contacts)

0

Number of contacts (normally closed contacts)

1

Number of contacts (normally open contacts)

1

Number of measuring circuits

1

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 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 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)

Degree of protection

IP20

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

Screwdriver size

2, Terminal screw, Pozidriv screwdriver

1 x 6 mm, Terminal screw, Standard screwdriver

Voltage type

AC/DC

Mounting position

As required

Shock resistance

10 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms

Contact discharge

6 kV, Electrostatic discharge (ESD)

Overvoltage category

III

Short-circuit protection rating

Max. 6 A gG/gL, Fuse, Contacts

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

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)

Pick-up voltage

0.85 - 1.1 V x U_e

Immunity to line-conducted interference

10 V (according to IEC/EN 61000-4-6)

Radio interference class

Class B (EN 55011)

Tightening torque

1.2 Nm, Screw terminals

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

Screw size

M3.5, Terminal screw

Rated insulation voltage (Ui)

400 V

Rated operational current for specified heat dissipation (In)

0 A

Rated operational voltage (Ue) - max

240 V

Reset resistance

1600 Ω

Resistance measuring range - max

12000 Ω

Resistance measuring range - min

750 Ω

Static heat dissipation, non-current-dependent Pvs

0.8 W

Temperature measuring range - max

0 °C

Temperature measuring range - min

0 °C

Trip resistance

3600 Ω

Voltage rating - max

600 V

Terminal capacity

1 x (0.5 - 2.5) mm², flexible with ferrule

1 x (0.5 - 2.5) mm², solid

2 x (0.5 - 1.5) mm², flexible with ferrule

20 - 14 AWG, solid or stranded

2 x (0.5 - 1.5) mm², solid

Rated switch current

6 A

Supply voltage at AC, 50 Hz - min

24 V

Supply voltage at AC, 50 Hz - max

240 V

Supply voltage at AC, 60 Hz - min

24 V

Supply voltage at AC, 60 Hz - max

240 V

Supply voltage at DC - min

24 V

Supply voltage at DC - max

240 V

Operating voltage at AC, 50 Hz - min

24 V

Operating voltage at AC, 50 Hz - max

240 V

Operating voltage at AC, 60 Hz - min

24 V

Operating voltage at AC, 60 Hz - max

240 V

Operating voltage at DC - min

24 V

Operating voltage at DC - max

240 V

Voltage type of supply voltage

AC/DC

Voltage type of operating voltage

AC/DC

Connection type (auxiliary circuit)

Screw connection



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