



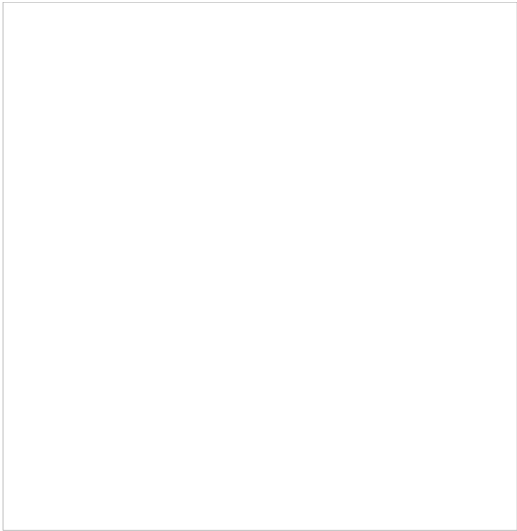
EMT6 THERMISTOR MOTOR  
PROTECTION RELAY  
066166

  
Overview

  
Specifications

  
Resources

How to buy



066166

Eaton Moeller® series EMT6 Thermistor overload  
1W , 24-240V50/60Hz, 24-240VDC, without reclosing

How to buy

Photo is representative

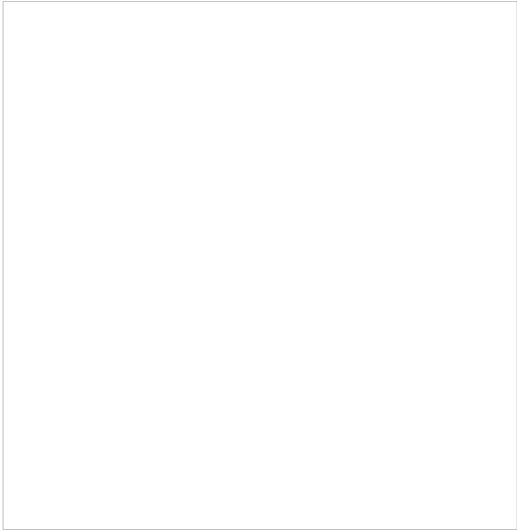


Photo is representative

GENERAL SPECIFICATIONS

General specifications	>	PRODUCT NAME	Eaton Moeller® series EMT6 Thermistor overload
		CATALOG NUMBER	066166
Product specifications	>	MODEL CODE	EMT6
		EAN	4015080661665
		PRODUCT LENGTH/DEPTH	103 mm
		PRODUCT HEIGHT	83 mm
		PRODUCT WIDTH	23 mm
		PRODUCT WEIGHT	0.128 kg
		CERTIFICATIONS	CSA Class No.: 3211-03 IEC/EN 60947-8 UL Category Control No.: NKCR CSA CSA-C22.2 No. 14 EN 55011 IEC/EN 60947 IEC/EN 61000-4-2 VDE 0660 CSA File No.: 12528 UL UL 508 UL File No.: E29184 IEC/EN 61000-4-3 CE

PRODUCT SPECIFICATIONS

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	0 A
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	25 °C
RESISTANCE MEASURING RANGE - MAX	12000 Ω
OPERATING VOLTAGE AT AC, 50 HZ - MAX	240 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	24 V
RESET RESISTANCE	1600 Ω
TEMPERATURE MEASURING RANGE - MIN	0 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	45 °C

<b>OPERATING VOLTAGE AT DC - MAX</b>	240 V
<b>TEMPERATURE MEASURING RANGE - MAX</b>	0 °C
<b>AMBIENT STORAGE TEMPERATURE - MIN</b>	45 °C
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN</b>	24 V
<b>SURGE RATING</b>	According to IEC/EN 61000-4-5, power pulses (Surge), 2 kV, symmetrical, power pulses (Surge), EMC 4 kV, asymmetrical, power pulses (Surge), EMC
<b>TRIP RESISTANCE</b>	3600 Ω
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>	240 V
<b>SCREW SIZE</b>	M3.5, Terminal screw
<b>IMMUNITY TO LINE-CONDUCTED INTERFERENCE</b>	10 V (according to IEC/EN 61000-4-6)
<b>PROTECTION</b>	Finger and back-of-hand proof Protection against disassembly actuated from front (EN 50274)
<b>CONTACT DISCHARGE</b>	6 kV
<b>SUPPLY VOLTAGE AT DC - MIN</b>	24 V
<b>OPERATING VOLTAGE AT DC - MIN</b>	24 V
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	60 °C
<b>CLIMATIC PROOFING</b>	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	0.8 W
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX</b>	240 V
<b>VOLTAGE RATING - MAX</b>	600 V
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>SUPPLY VOLTAGE AT AC, 60 HZ - MAX</b>	240 V
<b>SAFE ISOLATION</b>	250 V AC, Between the contacts, According to EN 60959-1 250 V AC, Between the contacts and power supply, According to EN 61140
<b>SUPPLY VOLTAGE AT DC - MAX</b>	240 V
<b>MOUNTING POSITION</b>	As required
<b>OPERATING VOLTAGE AT AC, 50 HZ - MIN</b>	24 V
<b>ELECTRIC CONNECTION TYPE</b>	Screw connection
<b>NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)</b>	1
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	0 W

<b>VOLTAGE TYPE</b>	AC/DC
<b>PRODUCT CATEGORY</b>	EMT6 thermistor overload relay for machine protection
<b>SUPPLY VOLTAGE AT AC, 60 HZ - MIN</b>	24 V
<b>RADIO INTERFERENCE CLASS</b>	Class B (EN 55011)
<b>TERMINAL CAPACITY</b>	2 x (0.5 - 1.5) mm <sup>2</sup> , solid 1 x (0.5 - 2.5) mm <sup>2</sup> , solid 1 x (0.5 - 2.5) mm <sup>2</sup> , flexible with ferrule 2 x (0.5 - 1.5) mm <sup>2</sup> , flexible with ferrule 20 - 14 AWG, solid or stranded
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT P<sub>VID</sub></b>	0 W
<b>HEAT DISSIPATION CAPACITY P<sub>DISS</sub></b>	0 W
<b>RATED OPERATIONAL CURRENT (I<sub>E</sub>)</b>	1 A at AC-15, 380 V 400 V 415 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) 3 A at AC-15, 220 V 230 V 240 V 3 A at AC-14, 300 V (NO) 1 A at AC-15, 380 V 400 V 415 V (NO) 3 A at AC-14, 300 V (NC) 3 A at AC-14, 400 V (NC) 3 A at AC-14, 380 V 400 V 415 V (NC) 1 A at AC-15, 300 V (NO) 3 A at AC-15, 220 V 230 V 240 V (NC) 1 A at AC-15, 300 V (NC)
<b>RATED SWITCH CURRENT</b>	6 A
<b>PICK-UP VOLTAGE</b>	0.85 - 1.1 V x U <sub>c</sub>
<b>AIR DISCHARGE</b>	8 kV
<b>CONNECTION TYPE (AUXILIARY CIRCUIT)</b>	Screw connection
<b>POWER CONSUMPTION</b>	2 W at DC 3.5 VA at AC
<b>VOLTAGE TYPE OF SUPPLY VOLTAGE</b>	AC/DC
<b>ELECTROMAGNETIC FIELDS</b>	10 V/m at 80 - 1000 MHz (according to IEC EN 61000-6-1) 3 V/m at 1.4 - 2 GHz (according to IEC EN 61000-6-2) 1 V/m at 2.0 - 2.7 GHz (according to IEC EN 61000-6-3)
<b>CONVENTIONAL THERMAL CURRENT I<sub>TH</sub> OF AUXILIARY CONTACTS (1-POLE, OPEN)</b>	6 A
<b>OPERATING VOLTAGE AT AC, 60 HZ - MAX</b>	240 V
<b>DEGREE OF PROTECTION</b>	IP20
<b>OVERVOLTAGE CATEGORY</b>	III
<b>SUPPLY VOLTAGE AT AC, 50 HZ - MIN</b>	24 V
<b>NUMBER OF MEASURING CIRCUITS</b>	1
<b>AMBIENT STORAGE TEMPERATURE - MAX</b>	85 °C

<b>VOLTAGE TYPE OF OPERATING VOLTAGE</b>	AC/DC
<b>POLLUTION DEGREE</b>	3
<b>RATED CONTROL SUPPLY VOLTAGE(US) AT AC, 60 HZ - MIN</b>	24 V
<b>RATED IMPULSE WITHSTAND VOLTAGE(UIMP)</b>	6000 V AC 4000 V AC
<b>SUPPLY VOLTAGE AT AC, 50 HZ - MAX</b>	240 V
<b>FUNCTIONS</b>	Test function via separate button Notifications of mains and faults via LED display
<b>RESISTANCE MEASURING RANGE - MIN</b>	750 $\Omega$
<b>OPERATING VOLTAGE AT AC, 60 HZ - MIN</b>	24 V
<b>TIGHTENING TORQUE</b>	1.2 Nm, Screw terminals
<b>SCREWDRIVER SIZE</b>	1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
<b>BURST IMPULSE</b>	According to IEC/EN 61000-4-4 1 kV, Signal cable 2 kV, Supply cable
<b>RATED CONTROL SUPPLY VOLTAGE(US) AT AC, 60 HZ - MAX</b>	240 V
<b>NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)</b>	1
<b>SHORT-CIRCUIT PROTECTION RATING</b>	Max. 6 A gG/gL, Fuse, Contacts
<b>NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)</b>	0
<b>SHOCK RESISTANCE</b>	10 g, Mechanical, according to IEC/EN 60068-2-27 shock 10 ms
<b>RATED OPERATIONAL VOLTAGE(UE) - MAX</b>	240 V
<b>RATED INSULATION VOLTAGE(UI)</b>	400 V

Brochures

Certification reports

Characteristic curve

Drawings

eCAD model

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Installation instructions

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Manuals and user guides

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mCAD model

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Wiring diagrams

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066166



Eaton is an intelligent power management company dedicated to improving the quality of life and protecting the environment for people everywhere. We are guided by our commitment to do business right, to operate sustainably and to help our customers manage power — today and well into the future. By capitalizing on the global growth trends of electrification and digitalization, we’re accelerating the planet’s transition to renewable energy and helping to solve the world’s most urgent power management challenges.