Specifications



Eaton 066400

Eaton Moeller® series EMT6 Thermistor overload relay for machine protection, 230V50/60Hz, without lock

General specifications

PRODUCT NAME	Eaton Moeller® series EMT6 Thermistor overload relay
CATALOG NUMBER	066400
MODEL CODE	EMT6(230V)
EAN	4015080664000
PRODUCT LENGTH/DEPTH	103 mm
PRODUCT HEIGHT	83 mm
PRODUCT WIDTH	23 mm
PRODUCT WEIGHT	0.153 kg
CERTIFICATIONS	CSA File No.: 12528 UL 508 IEC/EN 60947 CSA Class No.: 3211-03 UL Category Control No.: NKCR CSA-C22.2 No. 14 IEC/EN 61000-4-3 UL UL File No.: E29184 CE IEC/EN 61000-4-2 EN 55011 IEC/EN 60947-8 VDE 0660 CSA

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

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	1.5 W

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	230 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	230 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	230 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	230 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 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, 380 V 400 V 415 V (NC) 3 A at AC-14, 300 V (NC) 3 A at AC-15, 220 V 230 V 240 V (NO) 1 A at AC-15, 300 V (NC) 3 A at AC-14, 380 V 400 V 415 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 (NC) 3 A at AC-14, 400 V (NC) 3 A at AC-15, 220 V 230 V 240 V 3 A at AC-14, 300 V (NO) 1 A at AC-15, 300 V (NO)
RATED OPERATIONAL VOLTAGE (UE) - MAX	230 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 According to IEC/EN 61000-4-4 1 kV, Signal cable
CONTACT DISCHARGE	6 kV
ELECTROMAGNETIC FIELDS	10 V/m at 80 - 1000 MHz (according to IEC EN 61000-4-3) 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)
IMMUNITY TO LINE-CONDUCTED INTERFERENCE	10 V (according to IEC/EN 61000-4-6)
RADIO INTERFERENCE CLASS	Class B (EN 55011)
SURGE RATING	According to IEC/EN 61000-4-5, power pulses (Surge), EMC 2 kV, symmetrical, power pulses (Surge), EMC 4 kV, asymmetrical, power pulses (Surge), EMC

Features & functions

ELECTRIC CONNECTION TYPE	Screw connection
FUNCTIONS	Notifications of mains and faults via LED display 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)	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

Terminal capacities

SCREW SIZE	M3.5, Terminal screw
SCREWDRIVER SIZE	2, Terminal screw, Pozidriv screwdriver 1 x 6 mm, Terminal screw, Standard screwdriver
TERMINAL CAPACITY	20 - 14 AWG, solid or stranded 2 x (0.5 - 1.5) mm², solid 2 x (0.5 - 1.5) mm², flexible with ferrule 1 x (0.5 - 2.5) mm², solid 1 x (0.5 - 2.5) mm², 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-uk250987en.pdf eaton-thermistor-overload-relay-declaration-of-conformity-eu251559en.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.eps
ECAD MODEL	DA-CE-ETN.EMT6(230V)
INSTALLATION INSTRUCTIONS	eaton-emt6-thermistor-motor-protection-relays-il121016zu.pdf
MANUALS AND USER GUIDES	MN03407006Z_DE_EN
MCAD MODEL	eaton-emt6-3d-model.stp DA-CD-emt6 eaton-emt6-drawing.dwg
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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