

**EMT6 THERMISTOR MOTOR
PROTECTION RELAY**
066168



Overview

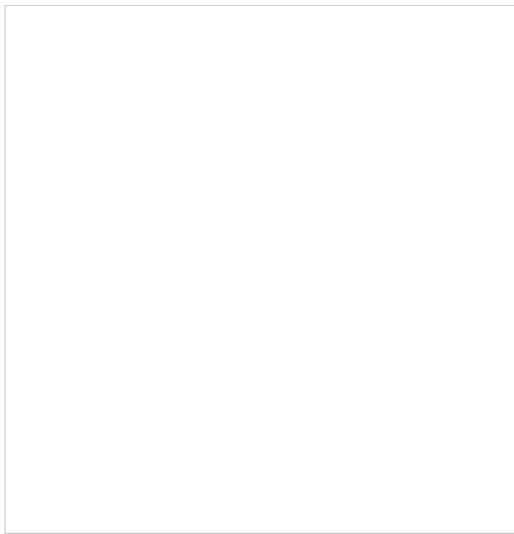


Specifications



Resources

How to buy



066168

Eaton Moeller® series EMT6 Thermistor overload
multi-function, 24-240V50/60HZ/DC

How to buy

GENERAL SPECIFICATIONS

General specifications >

PRODUCT NAME Eaton Moeller® series EMT6 Thermistor overload

CATALOG NUMBER 066168

Product specifications >

MODEL CODE EMT6-DBK

EAN 4015080661689

PRODUCT LENGTH/DEPTH 103 mm

PRODUCT HEIGHT 83 mm

PRODUCT WIDTH 23 mm

PRODUCT WEIGHT 0.134 kg

CSA
IEC/EN 60947
UL
IEC/EN 60947-8
UL 508

CERTIFICATIONS

CE
CSA-C22.2 No. 14
IEC/EN 61000-4-3
IEC/EN 61000-4-2
UL Category Control No.: NKCR
CSA Class No.: 3211-03
UL File No.: E29184
CSA File No.: 12528
EN 55011
VDE 0660

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
OPERATING VOLTAGE AT DC - MAX	240 V
TEMPERATURE MEASURING RANGE - MAX	0 °C
AMBIENT STORAGE TEMPERATURE - MIN	45 °C
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	24 V
SURGE RATING	According to IEC/EN 61000-4-5, power pulses (Surge), 2 kV, symmetrical, power pulses (Surge), EMC 4 kV, asymmetrical, power pulses (Surge), EMC
TRIP RESISTANCE	3600 Ω
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	240 V
SCREW SIZE	M3.5, Terminal screw
IMMUNITY TO LINE-CONDUCTED INTERFERENCE	10 V (according to IEC/EN 61000-4-6)
PROTECTION	Finger and back-of-hand proof Protection against disarming actuated from front (EN 50274)
CONTACT DISCHARGE	6 kV
SUPPLY VOLTAGE AT DC - MIN	24 V

OPERATING VOLTAGE AT DC - MIN	24 V
AMBIENT OPERATING TEMPERATURE - MAX	60 °C
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0.8 W
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	240 V
VOLTAGE RATING - MAX	600 V
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
SUPPLY VOLTAGE AT AC, 60 HZ - MAX	240 V
SAFE ISOLATION	250 V AC, Between the contacts and power supply, 61140 250 V AC, Between the contacts, According to EN
SUPPLY VOLTAGE AT DC - MAX	240 V
MOUNTING POSITION	As required
OPERATING VOLTAGE AT AC, 50 HZ - MIN	24 V
ELECTRIC CONNECTION TYPE	Screw connection
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	1
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0 W
VOLTAGE TYPE	AC/DC
PRODUCT CATEGORY	EMT6 thermistor overload relay for machine protection
SUPPLY VOLTAGE AT AC, 60 HZ - MIN	24 V
RADIO INTERFERENCE CLASS	Class B (EN 55011)
TERMINAL CAPACITY	1 x (0.5 - 2.5) mm ² , solid 1 x (0.5 - 2.5) mm ² , flexible with ferrule 20 - 14 AWG, solid or stranded 2 x (0.5 - 1.5) mm ² , solid 2 x (0.5 - 1.5) mm ² , flexible with ferrule
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
RATED OPERATIONAL CURRENT (IE)	3 A at AC-14, 300 V (NC) 3 A at AC-14, 380 V 400 V 415 V (NC) 3 A at AC-15, 220 V 230 V 240 V 3 A at AC-14, 400 V (NC) 3 A at AC-15, 220 V 230 V 240 V (NC) 3 A at AC-14, 380 V 400 V 415 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 (NO) 1 A at AC-15, 300 V (NC) 3 A at AC-14, 300 V (NO) 1 A at AC-15, 380 V 400 V 415 V (NC)
RATED SWITCH CURRENT	6 A
PICK-UP VOLTAGE	0.85 - 1.1 V x U _c
AIR DISCHARGE	8 kV
CONNECTION TYPE (AUXILIARY CIRCUIT)	Screw connection
POWER CONSUMPTION	2 W at DC 3.5 VA at AC
VOLTAGE TYPE OF SUPPLY VOLTAGE	AC/DC
ELECTROMAGNETIC FIELDS	10 V/m at 80 - 1000 MHz (according to IEC EN 61000-6-3) 3 V/m at 1.4 - 2 GHz (according to IEC EN 61000-6-3) 1 V/m at 2.0 - 2.7 GHz (according to IEC EN 61000-6-3)
CONVENTIONAL THERMAL CURRENT I_{th} OF AUXILIARY CONTACTS (1-POLE, OPEN)	6 A
OPERATING VOLTAGE AT AC, 60 HZ - MAX	240 V
DEGREE OF PROTECTION	IP20
OVERVOLTAGE CATEGORY	III
SUPPLY VOLTAGE AT AC, 50 HZ - MIN	24 V
NUMBER OF MEASURING CIRCUITS	1
AMBIENT STORAGE TEMPERATURE - MAX	85 °C
VOLTAGE TYPE OF OPERATING VOLTAGE	AC/DC
POLLUTION DEGREE	3
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	24 V
RATED IMPULSE WITHSTAND VOLTAGE (U_{imp})	6000 V AC 4000 V AC
SUPPLY VOLTAGE AT AC, 50 HZ - MAX	240 V
FUNCTIONS	Manual reset Notifications of mains and faults via LED display Test function via separate button External reset possible Manual or remote resetting Trip with short-circuit in the sensor cable Zero-voltage safe Error registration possible Short-circuit recognition and zero-voltage safety can
RESISTANCE MEASURING RANGE - MIN	750 Ω
OPERATING VOLTAGE AT AC, 60 HZ - MIN	24 V

TIGHTENING TORQUE	1.2 Nm, Screw terminals
SCREWDRIVER SIZE	2, Terminal screw, Pozidriv screwdriver 1 x 6 mm, Terminal screw, Standard screwdriver
BURSTIMPULSE	According to IEC/EN 61000-4-4 1 kV, Signal cable 2 kV, Supply cable
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	240 V
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	1
SHORT-CIRCUIT PROTECTION RATING	Max. 6 A gG/gL, Fuse, Contacts
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
SHOCK RESISTANCE	10 g, Mechanical, according to IEC/EN 60068-2-27 shock 10 ms
RATED OPERATIONAL VOLTAGE (UE) - MAX	240 V
RATED INSULATION VOLTAGE (UI)	240 V

Brochures

Certification reports

Characteristic curve

Drawings

eCAD model

Installation instructions

Manuals and user guides

mCAD model

Wiring diagrams



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