

# Eaton 066400

Catalog Number: 066400

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



## General specifications

<b>Product Name</b>	<b>Catalog Number</b>
Eaton Moeller® series EMT6 Thermistor overload relay	066400
	<b>EAN</b>
	4015080664000
<b>Product Length/Depth</b>	<b>Product Height</b>
103 mm	83 mm
<b>Product Width</b>	<b>Product Weight</b>
23 mm	0.153 kg
<b>Certifications</b>	<b>Model Code</b>
CSA File No.: 12528	EMT6(230V)
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	

## Features & Functions

### Electric connection type

Screw connection

### Functions

Notifications of mains and faults via LED display

Test function via separate button

### Temperature measuring range - min

0 °C

### Temperature measuring range - max

0 °C

## General

### 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

## Climatic environmental conditions

### Ambient operating temperature - min

-25 °C

### Ambient operating temperature - max

60 °C

### Ambient operating temperature (enclosed) - min

25 °C

### Ambient operating temperature (enclosed) - max

45 °C

## 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

Ambient storage temperature - min

45 °C

Ambient storage temperature - max

85 °C

Climatic proofing

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

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

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

## Terminal capacities

Terminal capacity

20 - 14 AWG, solid or stranded

2 x (0.5 - 1.5) mm<sup>2</sup>, solid

2 x (0.5 - 1.5) mm<sup>2</sup>, flexible with ferrule

1 x (0.5 - 2.5) mm<sup>2</sup>, solid

1 x (0.5 - 2.5) mm<sup>2</sup>, flexible with ferrule

Screw size

M3.5, Terminal screw

Screwdriver size

2, Terminal screw, Pozidriv screwdriver

1 x 6 mm, Terminal screw, Standard screwdriver

Tightening torque

1.2 Nm, Screw terminals

## Electrical rating

Conventional thermal current  $I_{th}$  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 ( $U_s$ ) at AC, 50 Hz - min

230 V

Rated control supply voltage ( $U_s$ ) at AC, 50 Hz - max

230 V

Rated control supply voltage ( $U_s$ ) at AC, 60 Hz - min

230 V

Rated control supply voltage ( $U_s$ ) at AC, 60 Hz - max

230 V

Rated control supply voltage ( $U_s$ ) at DC - min

0 V

Rated control supply voltage ( $U_s$ ) at DC - max

0 V

Rated insulation voltage ( $U_i$ )

400 V

Rated operational current ( $I_e$ )

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  $\Omega$

Short-circuit protection rating  
Max. 6 A gG/gL, Fuse, Contacts

Trip resistance  
3600  $\Omega$

Voltage rating - max  
600 V

## 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 P<sub>vid</sub>  
0 W

Heat dissipation capacity P<sub>diss</sub>  
0 W

Heat dissipation per pole, current-dependent P<sub>vid</sub>  
0 W

Rated operational current for specified heat dissipation (I<sub>n</sub>)  
0 A

Static heat dissipation, non-current-dependent P<sub>vs</sub>  
1.5 W

## Források

Brossúrák  
EMR6 - EMT6 - ETR4 brochure

Characteristic curve  
eaton-tripping-emt6-thermistor-overload-relay-characteristic-curve.eps

eCAD model  
DA-CE-ETN.EMT6(230V)

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

mCAD model  
eaton-emt6-3d-model.stp

DA-CS-emt6  
eaton-emt6-drawing.dwg

DA-CD-emt6

## Megfelelőségi nyilatkozatok

DA-DC-00003971.pdf

DA-DC-00003562.pdf

## Rajzok

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

## Telepítési útmutató

eaton-emt6-thermistor-motor-protection-relays-instruction-leaflet-  
il121016zu.pdf



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