

**BIMETAL OVERLOAD RELAYS**

**014376**



Overview



Specifications



Resources

How to buy

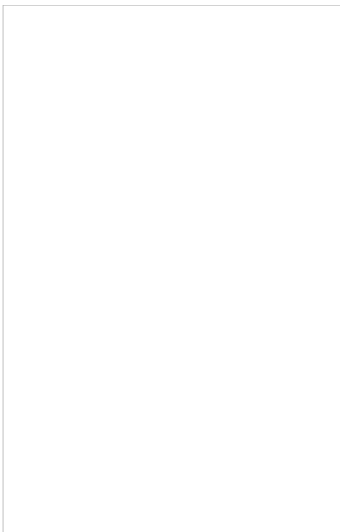


Photo is representative

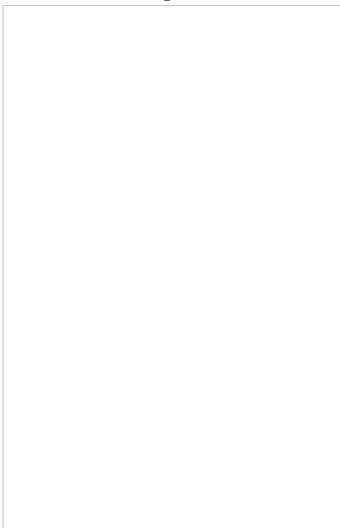


Photo is representative

**014376**

Eaton Moeller® series ZE Overload relay, Ir= 0.6 - 1  
mounting

**How to buy**

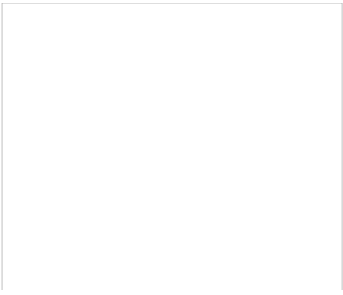


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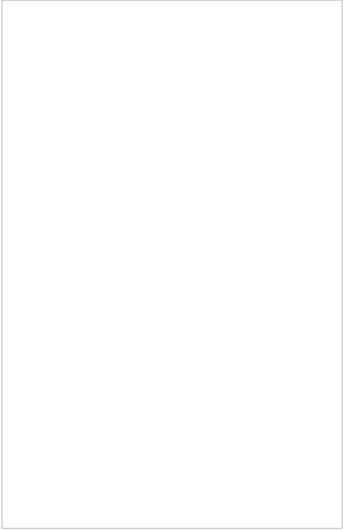


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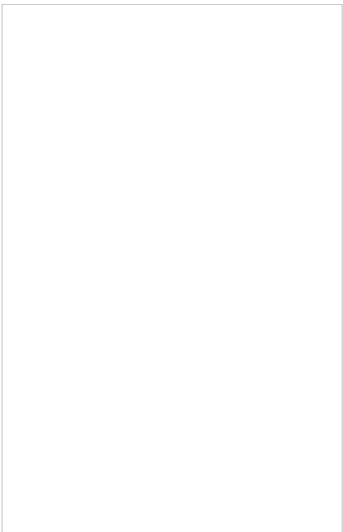


Photo is representative



## Designed to work together

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### 218194

Eaton Moeller® series M22 Button plate, flat red, STOP

### 051796

Eaton Moeller® series DILEM Contactor, 380 V 50 Hz, 440 V 60 Hz, 3 pole, 380 V 400 V, 4 kW, Contacts N/C = Normally closed= 1 NC, Screw terminals, AC operation

### 000639

Eaton Moeller® series DILEM Contactor, 200 V 50Hz, 200-220 V 60Hz, 3 pole, 380 V 400 V, 4 kW, Contacts N/C = Normally closed= 1 NC, Screw terminals, AC operation

### 051637

Eaton Moeller® series DILEEM Contactor, 42 V 50 Hz, 48 V 60 Hz, 3 pole, 380 V, 3 kW, Contacts N/C = Normally closed= 1 NC, Screw terminals, AC operation

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## GENERAL SPECIFICATIONS

General specifications

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**PRODUCT NAME** Eaton Moeller® series ZE Thermal overload relay

**CATALOG NUMBER** 014376

Product specifications

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**MODEL CODE** ZE-1,0

**EAN** 4015080143765

**PRODUCT LENGTH/DEPTH** 52 mm

**PRODUCT HEIGHT** 65 mm

**PRODUCT WIDTH** 45 mm

**PRODUCT WEIGHT** 0.075 kg

## CERTIFICATIONS

CSA  
CSA Class No.: 3211-03  
UL 508  
VDE 0660  
UL  
IEC/EN 60947-5-1  
UL File No.: E29184  
IEC/EN 60947  
CE  
CSA-C22.2 No. 14  
CSA File No.: 012528  
IEC/EN 60947-4-1  
UL Category Control No.: NKCR

## PRODUCT SPECIFICATIONS

<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	1 A
<b>TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)</b>	2 x (0.5 - 1.5) mm <sup>2</sup> , Main cables 1 x (0.5 - 1.5) mm <sup>2</sup> , Control circuit cables 1 x (0.5 - 1.5) mm <sup>2</sup> , Main cables
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specifications must be observed.
<b>STRIPPING LENGTH (CONTROL CIRCUIT CABLE)</b>	8 mm
<b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN</b>	25 °C
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications must be observed.
<b>MOUNTING METHOD</b>	Direct attachment Direct mounting
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be lifted.
<b>STRIPPING LENGTH (MAIN CABLE)</b>	8 mm
<b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX</b>	40 °C
<b>RESET FUNCTION</b>	Automatic Push-button
<b>SHORT-CIRCUIT CURRENT RATING (BASIC RATING)</b>	5 kA, SCCR (UL/CSA) 3 A, max. Fuse, SCCR (UL/CSA) 15 A, max. CB, CB for max. 480 V, SCCR (UL/CSA)
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>SCREW SIZE</b>	M3.5, Terminal screw
<b>ADJUSTABLE CURRENT RANGE - MIN</b>	0.6 A
<b>PROTECTION</b>	Finger and back-of-hand proof, Protection against direct contact, actuated from front (EN 50274)
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	50 °C
<b>CLIMATIC PROOFING</b>	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
<b>FEATURES</b>	Reset pushbutton manual/auto Phase-failure sensitivity (according to IEC/EN 60947-1:2011, 102) Test/off button Trip-free release
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	0 W
<b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 500 V</b>	0.5 A

<b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>	Screw connection
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to
<b>SAFE ISOLATION</b>	300 V AC, Between auxiliary contacts and main contacts, According to EN 61140 250 V AC, Between auxiliary contacts, According to EN 61140 300 V AC, Between main circuits, According to EN 61140
<b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V</b>	1.5 A
<b>CLASS</b>	CLASS 10 A
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the instructions in the instruction leaflet (IL) is observed.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to
<b>NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)</b>	1
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to
<b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V</b>	0.7 A
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	1.6 W
<b>SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)</b>	0.6 A, 600V AC, (UL/CSA) 1.5 A, 240V AC, (UL/CSA)
<b>PRODUCT CATEGORY</b>	ZE overload relays for mini contactor relays
<b>OVERLOAD RELEASE CURRENT SETTING - MIN</b>	0.6 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 60 V</b>	0.75 A
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	4.8 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>SUITABLE FOR</b>	Branch circuits, (UL/CSA)
<b>TEMPERATURE COMPENSATION</b>	Continuous ≤ 0.25 %/K, residual error for T > 40°
<b>TERMINAL CAPACITY (SOLID)</b>	1 x (0.75 - 2.5) mm <sup>2</sup> , Main cables 1 x (0.75 - 2.5) mm <sup>2</sup> , Control circuit cables 2 x (0.75 - 2.5) mm <sup>2</sup> , Control circuit cables
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	1

<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 220 V, 230 V</b>	0.2 A
<b>CONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)</b>	6 A
<b>OVERLOAD RELEASE CURRENT SETTING - MAX</b>	1 A
<b>TERMINAL CAPACITY (SOLID/STRANDED AWG)</b>	18 - 14, Main cables 2 x (18 - 12), Control circuit cables
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>DEGREE OF PROTECTION</b>	IP20
<b>OVERVOLTAGE CATEGORY</b>	III
<b>NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)</b>	0
<b>POLLUTION DEGREE</b>	3
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	6000 V AC 4000 V (auxiliary and control circuits)
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature Eaton will provide heat dissipation data for the device
<b>ADJUSTABLE CURRENT RANGE - MAX</b>	1 A
<b>SCREWDRIVER SIZE</b>	2, Terminal screw, Pozidriv screwdriver 0.8 x 5.5 mm, Terminal screw, Standard screwdriver
<b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 120 V</b>	1.5 A
<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Meets the product standard's requirements.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)</b>	1
<b>SHORT-CIRCUIT PROTECTION RATING</b>	4 A gG/gL, Fuse, Type "2" coordination 20 A gG/gL, Fuse, Type "1" coordination Max. 4 A gG/gL, Fuse, Auxiliary contacts
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	1
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 110 V</b>	0.4 A
<b>RATED OPERATIONAL VOLTAGE (UE) - MAX</b>	690 V

<b>SHOCK RESISTANCE</b>	10 g, Mechanical, Sinusoidal, Shock duration 10 m
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 24 V</b>	0.9 A
<b>SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)</b>	D300, AC operated (UL/CSA) R300, DC operated (UL/CSA)

Catalogs

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Certification reports

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Characteristic curve

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Declarations of conformity

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Drawings

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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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we're accelerating the planet's transition to renewable energy and helping to solve the world's most urgent power management challenges.