

BIMETAL OVERLOAD RELAYS

014479



Overview



Specifications



Resources

How to buy

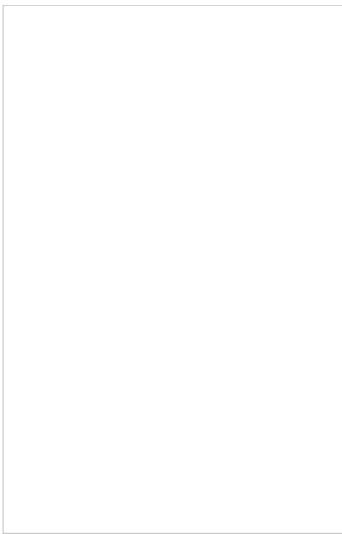


Photo is representative

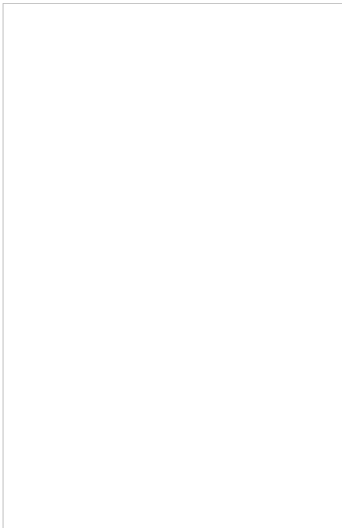


Photo is representative

014479

Eaton Moeller® series ZE Overload relay, Ir= 1.6 - 2.5 A, 240 V AC, 30 A, 2-pole, DIN mounting

How to buy



Photo is representative

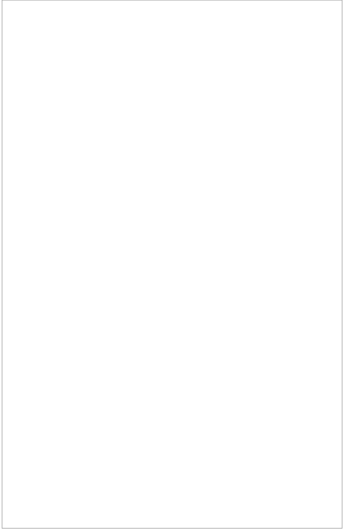


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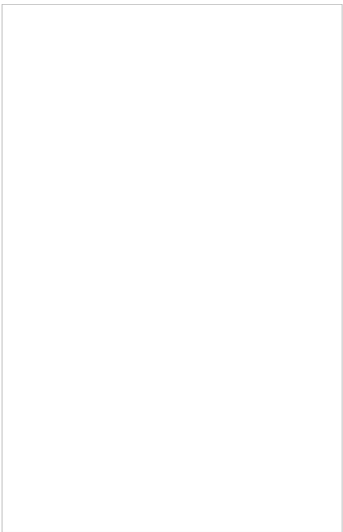


Photo is representative



Designed to work together

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010006

Eaton Moeller® series DILEM Contactor, 24 V 60 Hz, 3 pole, 380 V 400 V, 4 kW, Contacts N/O = Normally open= 1 N/O, Screw terminals, AC operation

051599

Eaton Moeller® series DILEEM Contactor, 110 V 60 Hz, 3 pole, 380 V 400 V, 3 kW, Contacts N/O = Normally open= 1 N/O, Screw terminals, AC operation

010032

Eaton Moeller® series DILEM Contactor, 240 V 50 Hz, 3 pole, 380 V 400 V, 4 kW, Contacts N/O = Normally open= 1 N/O, Screw terminals, AC operation

051604

Eaton Moeller® series DILEEM Contactor, 24 V 50 Hz, 3 pole, 380 V 400 V, 4 kW, Contacts N/O = Normally open= 1 N/O, Screw terminals, AC operation

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GENERAL SPECIFICATIONS

General specifications

>

PRODUCT NAME Eaton Moeller® series ZE Thermal overload relay

CATALOG NUMBER 014479

Product specifications

>

MODEL CODE ZE-2,4

EAN 4015080144793

PRODUCT LENGTH/DEPTH 52 mm

PRODUCT HEIGHT 65 mm

PRODUCT WIDTH 45 mm

PRODUCT WEIGHT 0.075 kg

CERTIFICATIONS

CSA-C22.2 No. 14

UL 508

CE

UL File No.: E29184

CSA File No.: 012528

UL

IEC/EN 60947

IEC/EN 60947-4-1

VDE 0660

UL Category Control No.: NKCR

CSA

CSA Class No.: 3211-03

IEC/EN 60947-5-1

PRODUCT SPECIFICATIONS

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	2.4 A
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.5 - 1.5) mm ² , Main cables 1 x (0.5 - 1.5) mm ² , Control circuit cables 2 x (0.5 - 1.5) mm ² , Main cables
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specifications must be observed.
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	8 mm
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specifications must be observed.
MOUNTING METHOD	Direct attachment Direct mounting
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be lifted.
STRIPPING LENGTH (MAIN CABLE)	8 mm
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
RESET FUNCTION	Automatic Push-button
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	5 kA, SCCR (UL/CSA) 15 A, max. CB, CB for max. 480 V, SCCR (UL/CSA) 6 A, max. Fuse, SCCR (UL/CSA)
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
SCREW SIZE	M3.5, Terminal screw
ADJUSTABLE CURRENT RANGE - MIN	1.6 A
PROTECTION	Finger and back-of-hand proof, Protection against direct contact, actuated from front (EN 50274)
AMBIENT OPERATING TEMPERATURE - MAX	50 °C
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
FEATURES	Phase-failure sensitivity (according to IEC/EN 60947-1:2011, 102) Trip-free release Reset pushbutton manual/auto Test/off button
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
RATED OPERATIONAL CURRENT (IE) AT AC-15, 500 V	0.5 A

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

10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT	Meets the product standard's requirements.
10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	Meets the product standard's requirements.
RATED OPERATIONAL CURRENT (IE) AT DC-13, 220 V, 230 V	0.2 A
CONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)	6 A
OVERLOAD RELEASE CURRENT SETTING - MAX	2.4 A
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14, Main cables 2 x (18 - 12), Control circuit cables
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
DEGREE OF PROTECTION	IP20
OVERVOLTAGE CATEGORY	III
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
POLLUTION DEGREE	3
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC 4000 V (auxiliary and control circuits)
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature Eaton will provide heat dissipation data for the device
ADJUSTABLE CURRENT RANGE - MAX	2.4 A
SCREWDRIVER SIZE	0.8 x 5.5 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
RATED OPERATIONAL CURRENT (IE) AT AC-15, 120 V	1.5 A
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	1
SHORT-CIRCUIT PROTECTION RATING	6 A gG/gL, Fuse, Type "2" coordination 20 A gG/gL, Fuse, Type "1" coordination Max. 4 A gG/gL, Fuse, Auxiliary contacts
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1
RATED OPERATIONAL CURRENT (IE) AT DC-13, 110 V	0.4 A
RATED OPERATIONAL VOLTAGE (UE) - MAX	690 V

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

Catalogs

Certification reports

Characteristic curve

Declarations of conformity

Drawings

eCAD model

Installation instructions

Manuals and user guides

mCAD model

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.