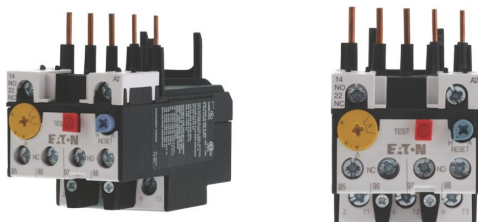


Specificații



Imaginile sunt doar cu titlu informativ



Eaton 278438

Eaton Moeller® series ZB Overload relay, ZB12, Ir= 2.4 - 4 A, 1 N/O, 1 N/C, Direct mounting, IP20

Specificații generale

PRODUCT NAME	Eaton Moeller® series ZB Thermal overload relay
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CATALOG NUMBER	278438
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EAN	4015082784386
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UPC	782116358687
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PRODUCT LENGTH/DEPTH	88 mm
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PRODUCT HEIGHT	67 mm
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PRODUCT WIDTH	45 mm
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PRODUCT WEIGHT	0.142 kg
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CERTIFICATIONS	UL File No.: E29184 CSA IEC/EN 60947 VDE 0660 IEC/EN 60947-4-1 UL 60947-4-1 CSA Class No.: 3211-03 UL CSA File No.: 012528 CE CSA-C22.2 No. 60947-4-1-14 UL Category Control No.: NKCR
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MODEL CODE	ZB12-4
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Powering Business Worldwide

Contacte

NUMBER OF AUXILIARY
CONTACTS (CHANGE-
OVER CONTACTS) 0

NUMBER OF AUXILIARY
CONTACTS (NORMALLY
CLOSED CONTACTS) 1

NUMBER OF AUXILIARY
CONTACTS (NORMALLY
OPEN CONTACTS) 1

NUMBER OF CONTACTS
(NORMALLY CLOSED
CONTACTS) 1

NUMBER OF CONTACTS
(NORMALLY OPEN
CONTACTS) 1

Verificarea proiectării

10.10 TEMPERATURE RISE

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

10.11 SHORT-CIRCUIT RATING

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.12 ELECTROMAGNETIC COMPATIBILITY

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.13 MECHANICAL FUNCTION

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

10.2.2 CORROSION RESISTANCE

Meets the product standard's requirements.

10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES

Meets the product standard's requirements.

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.

10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION

Meets the product standard's requirements.

10.2.5 LIFTING

Does not apply, since the entire switchgear needs to be evaluated.

10.2.6 MECHANICAL IMPACT

Does not apply, since the entire switchgear needs to be evaluated.

10.2.7 INSCRIPTIONS

Meets the product standard's requirements.

10.3 DEGREE OF PROTECTION OF ASSEMBLIES

Does not apply, since the entire switchgear needs to be evaluated.

10.4 CLEARANCES AND CREEPAGE DISTANCES

Meets the product standard's requirements.

10.5 PROTECTION

Does not apply, since the

AGAINST ELECTRIC SHOCK	entire switchgear needs to be evaluated.
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to be evaluated.
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	6 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	2 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	4 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W

Valoare nominală electrică

**CONVENTIONAL
THERMAL CURRENT ITH
OF AUXILIARY CONTACTS
(1-POLE, OPEN)**

6 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-15,
120 V**

1.5 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-15,
220 V, 230 V, 240 V**

1.5 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-15,
380 V, 400 V, 415 V**

0.9 A

**RATED OPERATIONAL
CURRENT (IE) AT DC-13,
110 V**

0.4 A

**RATED OPERATIONAL
CURRENT (IE) AT DC-13,
220 V, 230 V**

0.2 A

**RATED OPERATIONAL
CURRENT (IE) AT DC-13,
24 V**

0.9 A

**RATED OPERATIONAL
CURRENT (IE) AT DC-13,
60 V**

0.75 A

**RATED OPERATIONAL
VOLTAGE (UE) - MAX**

690 V

SAFE ISOLATION

440 V, Between auxiliary
contacts and main
contacts, According to EN
61140
440 V AC, Between main
circuits, According to EN
61140
240 V AC, Between
auxiliary contacts,
According to EN 61140

SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)

R300, DC operated
(UL/CSA)
B300 at opposite polarity,
AC operated (UL/CSA)
B600 at opposite polarity,
AC operated (UL/CSA)

VOLTAGE RATING - MAX

600 VAC

Features & functions

FEATURES

Trip-free release
Reset pushbutton
manual/auto
Test/off button
Phase-failure sensitivity
(according to IEC/EN
60947, VDE 0660 Part 102)

Informații generale

AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
CLASS	CLASS 10 A / IEC 60947-4-1, 8.2.1.5.1.1. c) 4 min
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
DEGREE OF PROTECTION	IP20 IP00
FRAME SIZE	ZB12
MOUNTING METHOD	Direct attachment Direct mounting
OVERLOAD RELEASE CURRENT SETTING - MAX	4 A
OVERLOAD RELEASE CURRENT SETTING - MIN	2.4 A
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
PRODUCT CATEGORY	- Accessories - Overload relay ZB up to 150 A
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 (auxiliary and control circuits)
SHOCK RESISTANCE	10 g, Mechanical, Sinusoidal, Shock duration 10 ms
SUITABLE FOR	Branch circuits, (UL/CSA)
TEMPERATURE COMPENSATION	≤ 0.25 %/K, residual error for T > 40° Continuous

Grad de protecție la scurtcircuit

SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	6 A, Class J/CC, max. Fuse, SCCR (UL/CSA) 100 kA, Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING	25 A gG/gL, Fuse, Type "1" coordination Max. 6 A gG/gL, fuse, Without welding, Auxiliary and control circuits 16 A gG/gL, Fuse, Type "2" coordination Information on Type "1" and Type "2" coordination applies to 100 kA and 690 V

Secțiuni de racordare

SCREW SIZE	M4, Terminal screw M3.5, Terminal screw, Control circuit cables
SCREWDRIVER SIZE	1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	8 mm
STRIPPING LENGTH (MAIN CABLE)	10 mm
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (1 - 4) mm ² , Main cables 2 x (1 - 4) mm ² , Main cables 2 x (0.75 - 2.5) mm ² , Control circuit cables 1 x (0.75 - 2.5) mm ² , Control circuit cables
TERMINAL CAPACITY (SOLID)	2 x (0.75 - 4) mm ² , Control circuit cables 1 x (0.75 - 4) mm ² , Control circuit cables 1 x (1 - 6) mm ² , Main cables 2 x (1 - 6) mm ² , Main cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 8, Main cables 2 x (18 - 14), Control circuit cables
TIGHTENING TORQUE	1.8 Nm, Screw terminals, Main cables 1.2 Nm, Screw terminals, Control circuit cables

DENUMIREA PROIECTULUI:

NUMĂRUL PROIECTULUI:

PREGĂTIT DE:

DATA:

Resurse

CHARACTERISTIC CURVE	eaton-tripping-devices-zb-overload-relay-characteristic-curve-007.eps
DECLARATIONS OF CONFORMITY	eaton-thermal-overload-relay-declaration-of-conformity-uk251269en.pdf
DESENE	eaton-tripping-devices-overload-relay-zb-overload-relay-dimensions-003.eps eaton-tripping-devices-overload-relay-zb-overload-relay-3d-drawing.eps
INSTRUCȚIUNI DE INSTALARE	IL03407195Z eaton-overload-relays-zb12-zb32-il03407015z.pdf
PEP ECO-PASSPORT	eaton-thermal-overload-relays-pep-eato-00458-v0101-en.pdf



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