



Eaton 107317

Eaton Moeller® series ZB Overload relay,
ZB150, Ir= 145 - 175 A, 1 N/O, 1 N/C,
Separate mounting, IP00

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PRODUCT NAME	Eaton Moeller® series ZB Thermal overload relay
CATALOG NUMBER	107317
PRODUCT LENGTH/DEPTH	134 mm
PRODUCT HEIGHT	121 mm
PRODUCT WIDTH	118 mm
PRODUCT WEIGHT	1.467 kg
CERTIFICATIONS	VDE 0660 UL 60947-4-1 IEC/EN 60947 CSA-C22.2 No. 60947-4-1- 14 CSA Class No.: 3211-03 CE IEC/EN 60947-4-1 UL UL Category Control No.: NKCR UL File No.: E29184 CSA File No.: 012528 CSA

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

CHARACTERISTIC CURVE	eaton-tripping-zb-overload-relay-characteristic-curve-003.eps
DECLARATIONS OF CONFORMITY	eaton-thermal-overload-relay-declaration-of-conformity-uk251269en.pdf
□□□□□	eaton-overload-relays-z5-zb150-il03407006z.pdf
□□	eaton-tripping-devices-overload-relay-zb-overload-relay-dimensions-007.eps eaton-tripping-devices-overload-relay-zb-overload-relay-3d-drawing-005.eps

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 AGAINST ELECTRIC SHOCK	Does not apply, since the 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.
POLLUTION DEGREE	3
CLASS	CLASS 10 A
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	8000 V AC 4000 V (auxiliary and control circuits)
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	175 A

CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	0 W
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	8 mm
STRIPPING LENGTH (MAIN CABLE)	24 mm
VOLTAGE RATING - MAX	600 VAC
PRODUCT CATEGORY	<ul style="list-style-type: none"> • 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)
FRAME SIZE	ZB150
ADJUSTABLE CURRENT RANGE - MAX	175 A
ADJUSTABLE CURRENT RANGE - MIN	145 A
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
CONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)	6 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	34.5 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	11.5 W
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
OVERLOAD RELEASE CURRENT SETTING - MAX	175 A
OVERLOAD RELEASE CURRENT SETTING - MIN	145 A
RATED OPERATIONAL VOLTAGE (UE) - MAX	1000 V
RATED OPERATIONAL CURRENT (IE) AT AC-15, 120 V	1.5 A
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
RESET FUNCTION	Automatic Push-button
SCREWDRIVER SIZE	2, Terminal screw, Control circuit cables, Pozidriv screwdriver 1 x 6 mm, Terminal screw, Control circuit cables, Standard screwdriver
MOUNTING METHOD	Separate positioning Separate mounting
DEGREE OF PROTECTION	IP00
OVERVOLTAGE CATEGORY	III
SAFE ISOLATION	240 V AC, Between auxiliary contacts, According to EN 61140 440 V AC, Between main circuits, According to EN 61140 440 V AC, Between auxiliary contacts and main contacts, According to EN 61140
SCREW SIZE	5 mm AF, Hexagon socket-head spanner, Terminal screw, Main cables M10, Terminal screw, Main cables M3.5, Terminal screw, Control circuit cables

SHOCK RESISTANCE	10 g, Mechanical, Sinusoidal, Shock duration 10 ms
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	300 A Class J, max. Fuse, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA)
TERMINAL CAPACITY (STRANDED)	1 x (16 - 70) mm ² , Main cables 2 x (16 - 70) mm ² , Main cables
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	R300, DC operated (UL/CSA) B600 at opposite polarity, AC operated (UL/CSA) B300 at opposite polarity, AC operated (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING	315 A gG/gL, Fuse, Type "2" coordination Max. 6 A gG/gL, fuse, Without welding, Auxiliary and control circuits 400 A gG/gL, Fuse, Type "1" coordination
SUITABLE FOR	Branch circuits, (UL/CSA)
TEMPERATURE COMPENSATION	≤ 0.25 %/K, residual error for T > 40° Continuous
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 2.5) mm ² , Control circuit cables 2 x (4 - 70) mm ² , Main cables 2 x (0.75 - 2.5) mm ² , Control circuit cables 1 x (4 - 70) mm ² , Main cables
TERMINAL CAPACITY (SOLID)	1 x (4 - 16) mm ² , Main cables 1 x (0.75 - 4) mm ² , Control circuit cables 2 x (0.75 - 4) mm ² , Control circuit cables 2 x (4 - 16) mm ² , Main cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	3/0, Main cables 2 x (18 - 14), Control circuit cables
TIGHTENING TORQUE	1.2 Nm, Screw terminals, Control circuit cables 10 Nm, Screw terminals, Main cables

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:



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