## Specifications



## Photo is representative





## Eaton 210072

Eaton Moeller® series Z5 Overload relay, Ir= 95 - 125 A, 1 N/O, 1 N/C, For use with: DILM250

General specifications	
PRODUCT NAME	Eaton Moeller® series Z5 Thermal overload relay
CATALOG NUMBER	210072
MODEL CODE	Z5-125/FF250
EAN	4015082100728
PRODUCT LENGTH/DEPTH	146 mm
PRODUCT HEIGHT	167 mm
PRODUCT WIDTH	128 mm
PRODUCT WEIGHT	1.731 kg
CERTIFICATIONS	IEC/EN 60947 IEC/EN 60947-4-1 CE UL CSA File No.: 012528 CSA Class No.: 3211-03 CSA-C22.2 No. 60947-4-1- 14 UL File No.: E29184 CSA UL 60947-4-1 UL Category Control No.: NKCR VDE 0660



Features & Functions	5
FEATURES	Phase-failure sensitivity (according to IEC/EN 60947, VDE 0660 Part 102) Reset pushbutton manual/auto Test/off button Trip-free release

General	
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE - MAX	60 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	25 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
CLASS	CLASS 10 A
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
DEGREE OF PROTECTION	IP00
MOUNTING METHOD	Direct attachment Direct mounting Separate mounting
OVERLOAD RELEASE CURRENT SETTING - MIN	95 A
OVERLOAD RELEASE CURRENT SETTING - MAX	125 A
OVERVOLTAGE CATEGORY	Ш
POLLUTION DEGREE	3
PRODUCT CATEGORY	Overload relay Z5
PROTECTION	With terminal cover, Protection against direct contact when actuated from front (EN 50274)
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	8000 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

Terminal capacities	
TERMINAL CAPACITY (BUSBAR)	25 mm width, Main connection
TERMINAL CAPACITY (FLEXIBLE WITH CABLE LUG)	185 mm²
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (0.75 - 2.5) mm², Control circuit cables 1 x (0.75 - 2.5) mm², Control circuit cables
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 4) mm <sup>2</sup> , Control circuit cables 2 x (0.75 - 4) mm <sup>2</sup> , Control circuit cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	2/0 - 500 MCM, Main cables 2 x (18 - 14), Control circuit cables
TERMINAL CAPACITY (STRANDED WITH CABLE LUG)	185 mm²
WIDTH ACROSS FLATS	16 mm (Hexagon head spanner SW)
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	8 mm
SCREW SIZE	M3.5, Terminal screw, Control circuit cables M10 x 35, Terminal screw, Main connections
SCREWDRIVER SIZE	1 x 6 mm, Terminal screw, Control circuit cables, Standard screwdriver 2, Terminal screw, Control circuit cables, Pozidriv screwdriver
TIGHTENING TORQUE	1.2 Nm, Screw terminals, Control circuit cables 18 Nm, Main cable connection screw/bolt

Electrical rating	
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	1000 V
SAFE ISOLATION	440 V, Between auxiliary contacts and main contacts, According to EN 61140 500 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)	B600 at opposite polarity, AC operated (UL/CSA) R300, DC operated (UL/CSA) B300 at opposite polarity, AC operated (UL/CSA)
VOLTAGE RATING - MAX	600 VAC
VOLTAGE RATING - MAX	600 VAC

Short-circuit rating	
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	10 kA, SCCR (UL/CSA) 500 A, max. CB, SCCR (UL/CSA) 500 A Class J, max. Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING	315 A gG/gL, Fuse, Type "1" coordination 250 A gG/gL, Fuse, Type "2" coordination Max. 6 A gG/gL, fuse, Without welding, Auxiliary and control circuits

Contacts	
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

EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID  HEAT DISSIPATION CAPACITY PDISS  HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID  RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)  STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS  10.2.2 CORROSION RESISTANCE  10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES  10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT  10.2.3.3 RESIST. OF INSULATING MATERIALS TO NORMAL HEAT  10.2.3.3 RESIST. OF INSULA MAT. TO ABNORMAL HEAT  10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION  10.2.5 LIFTING  10.2.6 MECHANICAL IMPACT  10.2.7 INSCRIPTIONS  10.3 DEGREE OF PROTECTION OF ROSTED AND RESISTANCE SAND CREEPAGE DISTANCES  10.4 CLEARANCES AND CREEPAGE DISTANCES  10.5 PROTECTION DOES not apply, since the entire switchgear needs to be evaluated.  10.4 CLEARANCES AND CREEPAGE DISTANCES  10.5 PROTECTION DOES not apply, since the entire switchgear needs to be evaluated.  10.6 INCORPORATION OF SWITCHING DEVICES AND CREEPAGE DISTANCES  10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS  DOES not apply, since the entire switchgear needs to be evaluated.		
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Resources	
CATALOGUES	Product Range Catalog Switching and protecting motors
	eaton-product-overview- for-machinery-catalogue- ca08103003zen-en-us.pdf
CHARACTERISTIC CURVE	eaton-tripping-z5- overload-relay- characteristic-curve.eps
	eaton-tripping-z5- overload-relay- characteristic-curve- 004.eps
DECLARATIONS OF CONFORMITY	eaton-thermal-overload- relay-declaration-of- conformity- uk251268en.pdf
	eaton-thermal-overload- relay-declaration-of- conformity- eu250785en.pdf
DRAWINGS	eaton-tripping-devices- overload-relay-z5- overload-relay- dimensions-002.eps
	eaton-tripping-devices- overload-relay-25- overload-relay-3d- drawing.eps
ECAD MODEL	ETN.210072.edz
	<u>IL03407081Z</u>
INSTALLATION	<u>IL03407140Z2010 10</u>
INSTRUCTIONS	eaton-overload-relays-z5- zb150-il03407006z.pdf
MANUALS AND USER GUIDES	DA-MN-h1476dgb
MCAD MODEL	DA-CS-z5_ff250
WICAD MODEL	DA-CD-z5 ff250
WIRING DIAGRAMS	eaton-tripping-devices- overload-relay-zeb- overload-relay-wiring- diagram.eps
	eaton-general-release-zeb- overload-relay-wiring- diagram.eps

10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
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.

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



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Eaton House

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