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BIMETAL OVE 210071	RLOAD RELAYS	Overview	Specifications	Resources	Hov
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Photo is representative

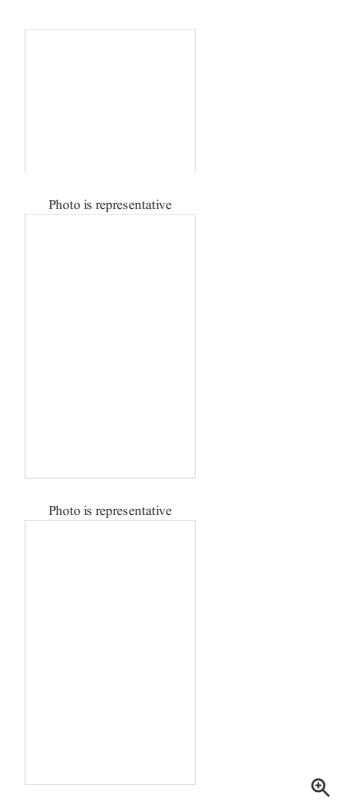


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Eaton Moeller® series M22 Release Eaton Moeller® series M22 Release Eaton Moeller® series M22 Button plate, pushbutton, blue, Bezel: titanium, RESET pushbutton, blue, Bezel: titanium flat red, blank

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Eaton Moeller® series M22 But

GENERAL SPECIFICATIONS

General specifications >			
	>	PRODUCTNAME	Eaton Moeller® series Z5 Thermal overload relay
•		CATALOG NUMBER	210071
Product specifications	>	MODEL CODE	Z5-100/FF250
		EAN	4015082100711
		PRODUCT LENGTH/DEPTH	146 mm
		PRODUCTHEIGHT	167 mm
		PRODUCT WIDTH	128 mm
		PRODUCTWEIGHT	1.727 kg
		CERTIFICATIONS	CSA Class No.: 3211-03 UL Category Control No.: NKCR VDE 0660 CSA-C22.2 No. 60947-4-1-14 CSA UL 60947-4-1 CSA File No.: 012528 IEC/EN 60947-4-1 CE IEC/EN 60947 UL UL File No.: E29184

PRODUCT SPECIFICATIONS

100 A
2 x (0.75 - 2.5) mm², Control circuit cables 1 x (0.75 - 2.5) mm², Control circuit cables
Is the panel builder's responsibility. The specification must be observed.
8 mm
25 °C
Meets the product standard's requirements.
Is the panel builder's responsibility. The specification must be observed.
Direct mounting Direct attachment Separate mounting
Does not apply, since the entire switchgear needs to
40 °C
Meets the product standard's requirements.
Automatic Push-button
10 kA, SCCR (UL/CSA) 400 A, max. CB, SCCR (UL/CSA) 400 A Class J, max. Fuse, SCCR (UL/CSA)
Is the panel builder's responsibility.
M10 x 35, Terminal screw, Main connections M3.5, Terminal screw, Control circuit cables
70 A
185 mm ²
With terminal cover, Protection against direct conta front (EN 50274)
60 °C
Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Trip-free release Phase-£ailure sensitivity (according to IEC/EN 6094 102) Test/off button Reset pushbutton manual/auto

o	0 W
DEPENDENT PVS	U W
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
VOLTAGE RATING - MAX	600 VAC
TERMINAL CAPACITY (BUSBAR)	25 mm width, Main connection
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
SAFEISOLATION	240 V AC, Between auxiliary contacts, According to 500 V AC, Between main circuits, According to EN 440 V, Between auxiliary contacts and main contact 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 instruction leaflet (IL) is observed.
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
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	0.9 A
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	7.9 W
PRODUCT CATEGORY	Overload relay Z5
O VERLO AD RELEASE CURRENT SETTING - MIN	70 A
RATED OPERATIONAL CURRENT (IE) AT DC-13, 60 V	0.75 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	23.7 W
HEAT DISSIPATION CAPACITY PDISS	0 W
SUITABLE FOR	Branch circuits, (UL/CSA)
TERMINAL CAPACITY (STRANDED WITH CABLE LUG)	185 mm²
TEMPERATURE COMPENSATION	Continuous ≤ 0.25 %/K, residual error for T > 40°
5/8	

TERMINAL CAPACITY (SOLID)	2 x (0.75 - 4) mm ² , Control circuit cables 1 x (0.75 - 4) mm ² , Control circuit 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.
WIDTH ACROSS FLATS	16 mm (Hexagon head spanner SW)
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
O VERLO AD RELEASE CURRENT SETTING - MAX	100 A
TERMINAL CAPACITY (SOLID/STRANDED AWG)	2/0 - 500 MCM, Main cables 2 x (18 - 14), Control circuit cables
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
DEGREE OF PROTECTION	IP00
OVERVOLTAGE CATEGORY	Ш
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)	4000 V (auxiliary and control circuits) 8000 V AC
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature Eaton will provide heat dissipation data for the devi
TIGHTENING TO RQUE	1.2 Nm, Screw terminals, Control circuit cables 18 Nm, Main cable connection screw/bolt
ADJUSTABLE CURRENT RANGE - MAX	100 A
SCREWDRIVER SIZE	2, Terminal screw, Control circuit cables, Pozidriv 1 x 6 mm, Terminal screw, Control circuit cables, 9
RATED OPERATIONAL CURRENT (IE) AT AC-15, 120 V	1.5 A
RATED OPERATIONAL CURRENT (IE) AT AC-15, 120 V 10.2.2 CORROSION RESISTANCE	1.5 A Meets the product standard's requirements.
	**
10.2.2 CORROSION RESISTANCE 10.2.4 RESISTANCE TO ULTRA-VIOLET (UV)	Meets the product standard's requirements.

CONTACTS)

SHORT-CIRCUIT PROTECTION RATING	Max. 6 A gG/gL, fuse, Without welding, Auxiliary 200 A gG/gL, Fuse, Type "2" coordination 315 A gG/gL, Fuse, Type "1" coordination
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	1000 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) B300 at opposite polarity, AC operated (UL/CSA) B600 at opposite polarity, AC operated (UL/CSA)

Catalogs
Characteristic curve
Declarations of conformity
Drawings
eCAD model
Installation instructions
Manuals and user guides
mCAD model
Wiring diagrams

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