

Specifications



Eaton 115979

Eaton Moeller® series M22 Function element, for combination with RMQ-Titan operating elements M22-..., 2 changeover contact, Front fixing, blue

General specifications

PRODUCT NAME	Eaton Moeller® series M22 function element
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CATALOG NUMBER	115979
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MODEL CODE	M22-SWD-K22LED-B
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EAN	4015081157198
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PRODUCT LENGTH/DEPTH	45 mm
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PRODUCT HEIGHT	42 mm
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PRODUCT WIDTH	17 mm
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PRODUCT WEIGHT	0.013 kg
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CERTIFICATIONS	CSA UL File No.: E29184 IEC/EN 61131-2 UL CSA File No.: 2324643 UL Category Control No.: NKCR CSA Class No.: 3211-07 EN 50178 BV LRS
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Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT OPERATING TEMPERATURE - MIN	-30 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
ENVIRONMENTAL CONDITIONS	Condensation: prevent with appropriate measures

Contacts

NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	2
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	2

Communication

CONNECTION TO SMARTWIRE-DT	Yes
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Design verification

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)	Meets the product standard's requirements.

RADIATION	
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 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.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	0 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0.3 W

Features & functions

ELECTRIC CONNECTION TYPE	Flat plug-in connection
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FUNCTIONS	For combination with RMQ-Titan operating elements M22-... Diagnosis function
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LED Details

LED INDICATOR	Status indication of SmartWire-DT network: Green LED Status indication of Switching state: Yellow LED
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General information

DEGREE OF PROTECTION	IP20
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MODEL	Top mounting
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OVERVOLTAGE CATEGORY	Not applicable
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POLLUTION DEGREE	2
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PRODUCT CATEGORY	SmartWire-DT RMQ connections
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Mounting details

CONNECTION TYPE	Front fixing SWD: Plug, 8-pole
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MOUNTING METHOD	Front fastening
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MOUNTING POSITION	As required
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Resources

CATALOGUES	eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf
CONTROL TRAVEL DIAGRAM	eaton-operating-diagram-m22-contact-element-contact-travel-diagram-009.eps
DECLARATIONS OF CONFORMITY	eaton-function-element-declaration-of-conformity-uk260007en.pdf eaton-function-element-declaration-of-conformity-eu251562en.pdf
DRAWINGS	2723DIM-25 eaton-operating-function-m22-function-element-dimensions.eps eaton-operating-button-symbol-003.eps eaton-operating-function-m22-function-element-3d-drawing-006.eps
ECAD MODEL	ETN.115979.edz
INSTALLATION INSTRUCTIONS	IL04716004Z2021_10.pdf
MANUALS AND USER GUIDES	MN05006001Z_EN MN05006002Z_EN
MCAD MODEL	eaton-cont-blocks-mcad-drawings-funktionen-k22-led-front.dwg DA-CS-funktionselement k22 led front
SALES NOTES	eaton-rmq-chemical-resistance-flyer-fl047011en-en-us.pdf
WIRING DIAGRAMS	eaton-modular-plc-m22-function-element-wiring-diagram-002.eps eaton-modular-plc-m22-function-element-wiring-diagram-004.eps

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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