Specifications



Eaton 218059

Eaton Moeller® series M22 Light element, LED, blue, front mount, screw connection, 85-264 V AC

General specifications	
PRODUCT NAME	Eaton Moeller® series M22 LED element
CATALOG NUMBER	218059
MODEL CODE	M22-LED230-B
EAN	4015082180591
PRODUCT LENGTH/DEPTH	38 mm
PRODUCT HEIGHT	10 mm
PRODUCT WIDTH	37 mm
PRODUCT WEIGHT	0.011 kg
COMPLIANCES	CE Marked
CERTIFICATIONS	EN 60947-5 IEC 60947-5 UL 508 CSA Std. C22.2 No. 14-05 CSA Std. C22.2 No. 94-91 VDE UL Category Control No.: NKCR IEC 60947-5-1 CSA-C22.2 No. 14-05 UL IEC/EN 60947-5 UL File No.: E29184 CSA File No.: 012528 CE CSA Class No.: 3211-03 CSA-C22.2 No. 94-91 CSA

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Communication

CONNECTION TO SMARTWIRE-DT	No

Contacts

FORCE FOR POSITIVE OPENING - MIN	0 N

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) 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	Does not apply, since the

PROTECTION OF ASSEMBLIES	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	1 W

Electrical rating

POWER CONSUMPTION	Max. 0.33 W
RATED INSULATION VOLTAGE (UI)	500 V
RATED OPERATIONAL CURRENT (IE) - MAX	15 mA
RATED OPERATIONAL CURRENT (IE) - MIN	5 mA
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	264 V
RATED OPERATIONAL VOLTAGE (UE) AT AC - MIN	85 V

Features & functions

FITTED WITH:	Diode Light source
LIGHT COLOR	Blue

General information

DEGREE OF PROTECTION	IP20
LIFESPAN, ELECTRICAL	100,000 h (at 25°C, according to EN60064)
OPERATING TORQUE	0.8 Nm
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
TYPE	LED lamp
VOLTAGE TYPE	AC

LED Details

LIGHT COLOR	Blue

Mounting details

CONNECTION TYPE	Front fixing
MOUNTING POSITION	As required

Terminal capacities

TERMINAL CAPACITY (SOLID)	0.75 - 2.5 mm²
TERMINAL CAPACITY (STRANDED)	0.5 - 2.5 mm²

Resources

CATALOGUES	eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-accessory-declaration-of-conformity-eu251542en.pdf eaton-accessory-declaration-of-conformity-uk260009en.pdf
DRAWINGS	eaton-operating-actuation-m22-led-element-dimensions.eps eaton-operating-button-symbol-003.eps eaton-operating-led-m22-led-element-standards.eps
ECAD MODEL	ETN.218059.edz
INSTALLATION INSTRUCTIONS	IL04716002Z
MCAD MODEL	eaton-lampblock-mcad-drawings-led-element-schraube-front.dwg DA-CS-led_element_schraube_front
PEP ECO-PASSPORT	eaton-operating-devices-rmq-titan-m22-il047018zu.pdf eaton-lamp-holder-blocks-pep-eato-00308-v0101-en.pdf

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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