Specifications



Eaton 231080

Eaton Moeller® series M22 LED element, 85-264VAC, for LED 85-264V

General specifications	
PRODUCT NAME	Eaton Moeller® series M22 LED element
CATALOG NUMBER	231080
MODEL CODE	M22-XLED230-T
EAN	4015082310806
PRODUCT LENGTH/DEPTH	37 mm
PRODUCT HEIGHT	30 mm
PRODUCT WIDTH	10 mm
PRODUCT WEIGHT	0.011 kg
COMPLIANCES	CE Marked
CERTIFICATIONS	EN 60947-5 UL 508 IEC 60947-5 CSA Std. C22.2 No. 94-91 CSA Std. C22.2 No. 14-05 VDE UL Category Control No.: NKCR UL UL File No.: E29184 CSA File No.: 012528 CSA Class No.: 3211-03 CSA CSA-C22.2 No. 94-91 CSA-C22.2 No. 14-05 CE IEC/EN 60947-5
CATALOG NOTES	LED test elements

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

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 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	1 W

Electrical rating

RATED OPERATIONAL VOLTAGE	85 - 264 V AC

Features & functions

FUNCTIONS	For de-coupled function test (lamp test)

General information

ACCESSORY/SPARE PART TYPE	Accessory
DEGREE OF PROTECTION	IP20
USED WITH	M22-(C)LED(C)230-…

Resources

CATALOGUES	eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-accessory-declaration-of-conformity-uk260009en.pdf eaton-accessory-declaration-of-conformity-eu251542en.pdf
DRAWINGS	eaton-operating-led-m22-led-element-standards.eps
ECAD MODEL	ETN.231080.edz
INSTALLATION INSTRUCTIONS	IL04716009Z
MCAD MODEL	DA-CS-vorschaltelement

	eaton-accessory-mcad-drawings-vorschaltelement.dwg

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:

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