

DATASHEET - M22-LED230-W



LED element, white, front mount, 85-264VAC

Part no. M22-LED230-W
216563
EL Number 4355375
(Norway)

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| General specifications | | |
| Product name | | Eaton Moeller® series M22 Accessory LED |
| Part no. | | M22-LED230-W |
| EAN | | 4015082165635 |
| Product Length/Depth | | 38 millimetre |
| Product height | | 10 millimetre |
| Product width | | 37 millimetre |
| Product weight | | 0.011 kilogram |
| Compliances | | CE Marked |
| Certifications | | UL Category Control No.: NKCR IEC/EN 60947-5 CSA Class No.: 3211-03 IEC 60947-5-1 CSA CSA-C22.2 No. 94-91 UL CSA-C22.2 No. 14-05 UL File No.: E29184 CSA File No.: 012528 CE VDE IEC 60947-5 CSA Std. C22.2 No. 94-91 UL 508 CSA Std. C22.2 No. 14-05 EN 60947-5 |
| Product Tradename | | M22 |
| Product Type | | Accessory |
| Product Sub Type | | LED |
| Features & Functions | | |
| Color | | White |
| Fitted with: | | Light source Diode |
| Light color | | White |
| General information | | |
| Degree of protection | | IP20 |
| Lifespan, electrical | | 100,000 h (at 25°C, according to EN60064) |
| Operating torque | | 0.8 N·m |
| Overvoltage category | | III |
| Pollution degree | | 3 |
| Rated impulse withstand voltage (Uimp) | | 6000 V AC |
| Voltage type | | AC |
| Ambient conditions, mechanical | | |
| Mounting position | | As required |
| Shock resistance | | Mechanical, According to IEC/EN 60068-2-27 30 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms |
| Climatic environmental conditions | | |
| Ambient operating temperature - min | | -25 °C |
| Ambient operating temperature - max | | 70 °C |
| Ambient storage temperature - min | | -40 °C |
| Ambient storage temperature - max | | 80 °C |
| Climatic proofing | | Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 |
| Terminal capacities | | |
| Terminal capacity (solid) | | 0.75 - 2.5 mm ² |

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| Terminal capacity (stranded) | | | 0.5 - 2.5 mm² |
| Electrical rating | | | |
| Power consumption | | | Max. 0.33 W |
| Rated insulation voltage (Ui) | | | 500 V |
| Rated operational current (Ie) - min | | | 5 mA |
| Rated operational current (Ie) - max | | | 15 mA |
| Rated operational voltage (Ue) at AC - max | | | 264 V |
| Rated operational voltage (Ue) at AC - min | | | 85 V |
| Rated operational voltage (Ue) at DC - max | | | 0 V |
| Rated operational voltage (Ue) at DC - min | | | 0 V |
| Communication | | | |
| Connection to SmartWire-DT | | | No |
| Connection type | | | Front fixing |
| Contacts | | | |
| Force for positive opening - min | | | 0 N |
| Design verification | | | |
| Equipment heat dissipation, current-dependent Pvid | | | 0 W |
| Heat dissipation capacity Pdis | | | 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 |
| 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. |
| 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. |

Technical data ETIM 9.0

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| Low-voltage industrial components (EG000017) / Lamp holder block for control circuit devices (EC000204) | | | |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Bulb socket block for command and alarm devices (ecI@ss13-27-37-12-09 [AKF027019]) | | | |
| Transformer integrated | | | No |
| With integrated voltage decreasing resistor | | | No |
| With light source | | | Yes |
| With integrated diode | | | Yes |
| Lamp holder | | | None |
| Rated voltage Ue at AC 50 Hz | | V | 85 - 264 |

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|-----------------------------------|---|------------------|
| Rated voltage Ue at AC 60 Hz | V | 85 - 264 |
| Rated voltage Ue at DC | V | 0 - 0 |
| Voltage type for actuating | | AC |
| Lamp type | | LED |
| Connection type auxiliary circuit | | Screw connection |
| Colour light source | | White |
| Type of fastening | | Front fastening |