

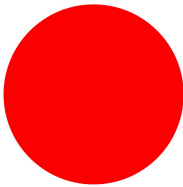

DATASHEET - M22-LEDC230-R**LED element, red, base fixing, 85-264VAC**

Part no. M22-LEDC230-R
Catalog No. 216567
Alternate Catalog No. M22-LEDC230-RQ
EL-Nummer (Norway) 4355380



Powering Business Worldwide™

Delivery program

| | | | |
|---|-----------------|----|--|
| Basic function accessories | | | LED elements |
| Connection technique | | | Screw terminals |
| Fixing | | | Base fixing |
| Rated operational voltage | U_e | V | 85 - 264 V AC, 50/60 Hz |
| Rated operational current | I_e | mA | 5 - 15 |
| Power consumption | $P_{max.}$ | W | 0.33 |
| Lifespan to EN 60064 at $t_a = +25\text{ °C}$ | t_{mean} (AC) | h | 100000 |
| Degree of Protection | | | IP20 |
| | | | At 230 V |
| Colour | | |  |
| Connection to SmartWire-DT | | | no |
| Approval | | |  |
| Connection technique | | | Screw terminals |
| Notes | | | |
| For indicator lights, illuminated pushbutton actuators, and illuminated selector switch actuators, the following applies: | | | |
| M22...-R only in combination with M22-LED...-R | | | |
| M22...-G only in combination with M22-LED...-G | | | |
| M22...-W only in combination with M22-LED...-W | | | |
| M22...-Y only in combination with M22-LED...-W | | | |
| M22...-B in combination with M22-LED...-W or M22-LED...-B | | | |

Technical data**General**

| | | | |
|--|--|----|--|
| Standards | | | IEC 60947-5-1 |
| Operating torque (screw terminals) | | Nm | ≤ 0.8 |
| Degree of Protection | | | IP20 |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature | | | |
| Open | | °C | -25 - +70 |
| Storage | | °C | - 40 - + 80 |
| Mounting position | | | As required |
| Mechanical shock resistance according to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal | | g | > 30 |

| | | | |
|-----------------------------|--|-----------------|---|
| Mechanical shock resistance | | g | 30 Shock duration 11 ms Sinusoidal according to IEC 60068-2-27 |
| Terminal capacities | | mm ² | |
| Solid | | mm ² | 0.75 - 2.5 |
| Stranded | | mm ² | 0.5 - 2.5 |

Contacts

| | | | |
|---|------------------|------|-------|
| Rated impulse withstand voltage | U _{imp} | V AC | 6000 |
| Rated insulation voltage | U _i | V | 500 |
| Overvoltage category/pollution degree | | | III/3 |
| Indoor and protected outdoor installation | | | |

Design verification as per IEC/EN 61439

| | | | |
|--|-------------------|----|--|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | I _n | A | 0 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 0 |
| Static heat dissipation, non-current-dependent | P _{vs} | W | 1 |
| Heat dissipation capacity | P _{diss} | W | 0 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 70 |
| IEC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties | | | |
| 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 7.0

| | | | |
|---|--|--|----|
| 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 (ecl@ss10.0.1-27-37-12-09 [AKF027014]) | | | |
| 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 |
| 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 lamp | | | Red |
| Type of fastening | | | Floor fastening |

Approvals

| | | | |
|-----------------------------|--|--|--|
| Product Standards | | | IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking |
| UL File No. | | | E29184 |
| UL Category Control No. | | | NKCR |
| CSA File No. | | | 012528 |
| CSA Class No. | | | 3211-03 |
| North America Certification | | | UL listed, CSA certified |
| Degree of Protection | | | UL/CSA Type: - |

Dimensions

Pushbutton with M22-(C)K...
 Pushbutton with M22-(C) LED... + M22-XLED...



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