

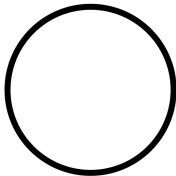


LED element, white, base fixing, cage clamp

Part no.  
Article no.  
Catalog No.

M22-CLEDC-W  
216572  
M22-CLEDC-WQ

## Delivery programme

|                                  |            |    |                                                                                     |
|----------------------------------|------------|----|-------------------------------------------------------------------------------------|
| Product range                    |            |    | RMQ-Titan (drilling dimensions 22.5 mm)                                             |
| Basic function                   |            |    | LED elements                                                                        |
| Single unit/Complete unit        |            |    | Single unit                                                                         |
| Description                      |            |    | Cage Clamp is a registered trademark of Wago Kontakttechnik GmbH/Minden, Germany    |
| Fixing                           |            |    | Base fixing                                                                         |
| Connection technique             |            |    | Cage Clamp                                                                          |
| Rated operational voltage        | $U_e$      | V  | 12 - 30 V AC/DC                                                                     |
| <b>Rated operational current</b> | $I_e$      | mA | 8 - 15                                                                              |
| Power consumption                | $P_{max.}$ | W  | 0.26                                                                                |
|                                  |            |    | at 24 V                                                                             |
| <b>Colour</b>                    |            |    |                                                                                     |
|                                  |            |    |  |
|                                  |            |    | White                                                                               |
| Degree of Protection             |            |    | IP20                                                                                |
| Front ring                       |            |    | - N/A -                                                                             |
| Connection to SmartWire-DT       |            |    | no                                                                                  |

### Notes

For pushbutton actuators, 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/EN 60947<br>VDE 0660                                                                |
| Operating torque (screw terminals) |  | Nm              |  0.8 |
| Climatic proofing                  |  |                 | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30          |
| Ambient temperature                |  | °C              |                                                                                         |
| Open                               |  | °C              | -25 - +70                                                                               |
| Storage                            |  | °C              | -40 - +80                                                                               |
| Mounting position                  |  |                 | As required                                                                             |
| Mechanical shock resistance        |  | g               | 30<br>Shock duration 11 ms<br>Sinusoidal<br>according to IEC 60068-2-27                 |
| Terminal capacities                |  | mm <sup>2</sup> |                                                                                         |

|          |  |                 |            |
|----------|--|-----------------|------------|
| Solid    |  | mm <sup>2</sup> | 0.75 - 2.5 |
| Stranded |  | mm <sup>2</sup> | 0.5 - 2.5  |

Contacts

|                                       |                  |      |       |
|---------------------------------------|------------------|------|-------|
| Rated impulse withstand voltage       | U <sub>imp</sub> | V AC | 6000  |
| Rated insulation voltage              | U <sub>i</sub>   | V    | 500   |
| Overvoltage category/pollution degree |                  |      | III/3 |

Notes

|                                           |
|-------------------------------------------|
| <b>Notes</b> > 200 V AC/60 Hz: -25/+55 °C |
| 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 <sub>n</sub>    | A  | 0                                                                                                                                |
| Heat dissipation per pole, current-dependent                                                                           | P <sub>vid</sub>  | W  | 0                                                                                                                                |
| Equipment heat dissipation, current-dependent                                                                          | P <sub>vid</sub>  | W  | 0                                                                                                                                |
| Static heat dissipation, non-current-dependent                                                                         | P <sub>vs</sub>   | W  | 0.45                                                                                                                             |
| Heat dissipation capacity                                                                                              | P <sub>diss</sub> | 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 6.0

|                                                                                                                                                                                                                |  |  |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-----|
| 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 (ec1@ss8.1-27-37-12-09 [AKF027011]) |  |  |     |
| With integrated transformer                                                                                                                                                                                    |  |  | No  |
| With integrated voltage decreasing resistor                                                                                                                                                                    |  |  | No  |
| With integrated lamp                                                                                                                                                                                           |  |  | Yes |
| With integrated diode                                                                                                                                                                                          |  |  | Yes |

|                                   |   |                         |
|-----------------------------------|---|-------------------------|
| Lamp holder                       |   | None                    |
| Rated voltage Ue at AC 50 Hz      | V | 12 - 30                 |
| Rated voltage Ue at AC 60 Hz      | V | 12 - 30                 |
| Rated voltage Ue at DC            | V | 12 - 30                 |
| Voltage type for actuating        |   | AC/DC                   |
| Type of lamp                      |   | LED                     |
| Connection type auxiliary circuit |   | Spring clamp connection |
| Colour lamp                       |   | White                   |
| 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...

## Additional product information (links)

|                                                    |                                                                                                                                                                       |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IL04716002Z (AWA1160-1745) RMQ-Titan System</b> |                                                                                                                                                                       |
| IL04716002Z (AWA1160-1745) RMQ-Titan System        | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04716002Z2015_02.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04716002Z2015_02.pdf</a> |