

231078 M22-XLED60	
Cverview Specific	E E Resources
Delivery program >	DELIVERY PROGRAM
Technical data ≻	Basic function accessories LED elements
Design verification as per IEC/EN 61439 >	Function for connecting 12 - 30 V LED elements
Technical data E∏M7.0 ≻	Description LED resistor
Approvals >	Connection technique Screw terminals
Dimensions >	Rated operational voltage [Ue] 42 60 V AC/DC V
	Degree of Protection IP20
	Connection to SmartWire-DT no



Connection technique Screw terminals

#### Notes

For pushbutton actuators, indicator lights, illuminated pushbuttons 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

Degree of Protection IP20

Ambient temperature Open -25 - +70 °C

Ambient temperature Storage - 40 - + 80 °C

# **DESIGN VERIFICATION AS PER IEC/EN 61439**

### Technical data for design verification

Rated operational current for specified heat

dissipation [I<sub>n</sub>] 0 A

Heat dissipation per pole, current-dependent  $[\mathsf{P}_{\text{id}}]$  0 W

Equipment heat dissipation, current-dependent  $[P_{\text{id}}] \\ 0 \text{ W}$ 

Static heat dissipation, non-current-dependent  $[\mathrm{P}_{\mathrm{vs}}]$  0.5 W

Heat dissipation capacity  $[P_{\text{diss}}]$  0 W

Operating ambient temperature min. -25 °C

Operating ambient temperature max. +70  $^\circ\mathrm{C}$ 

### IEC/EN 61439 design verification

10.2 Strength of materials and parts10.2.2 Corrosion resistanceMeets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.1 Verification of thermal stability of enclosures Meets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heatMeets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effectsMeets the product standard's requirements.

10.2 Strength of materials and parts10.2.4 Resistance to ultra-violet (UV) radiationMeets the product standard's requirements.

10.2 Strength of materials and parts10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.7 InscriptionsMeets the product standard's requirements.

10.3 Degree of protection of ASSEVBLIES 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 properties10.9.2 Pow er-frequency electric strength Is the panel builder's responsibility.

10.9 Insulation properties10.9.3 Impulse withstand voltageIs the panel builder's responsibility.

10.9 Insulation properties10.9.4 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) / Accessories for control circuit devices (EC002024)

Type of electrical accessory Resistor block

Type of mechanical accessory Other

# **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...



X

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