088808
Q18LT-GE

Overview | Specifications | Resources

DELIVERY PROGRAM

Delivery program

Technical data

Design verification as per IEC/EN 61439

Technical data ETIM 7.0

Approvals

Dimensions

Product range
RMQ16

Basic function
Illuminated pushbutton actuators

Mounting hole diameter [□]
16 mm

Single unit/Complete unit
Single unit

Design
Flat

momentary

Description
without light elements
With base, W2x4,6d; max. 30 V, 1 W

Colour

Lens

Button plate

button plate
yellow

Button plate

Blank

Degree of Protection
IP65

Connection to SmartWire-DT
no

TECHNICAL DATA

General

Standards
IEC/EN 60947

Lifespan, mechanical [Operations]
> 3 x 10^6

Operating frequency [Operations/h]
3600

Actuating force
□ 4 n

Degree of protection, IEC/EN 60529
IP65

Climatic proofing
Damp heat, constant, to IEC 60068-2-78
Damp heat, cyclic, to IEC 60068-2-30

Ambient temperature
Open
-25 - +60 °C

Ambient temperature
Enclosed
- 25 - 40 °C

Mounting position
As required

Mechanical shock resistance
> 40
according to IEC 60068-2-27
Shock duration 11 ms
Sinusoidal g

Blade terminal
2.8 x 0.8 mm to DIN 46244

Fast-on connectors
2.8 x 0.8 mm to DIN 46247 and IEC 60760

Contacts

Rated impulse withstand voltage [U_{imp}]
800 V AC

Rated insulation voltage [U_i]
250 V

Overvoltage category/pollution degree
III/3

Rated operational voltage [U_e]
24 V AC

Control circuit reliability
at 24 V DC/5 mA [H_F]
< 10^{-7} (i.e. 1 failure to 10^7 operations) Fault probability

Control circuit reliability
at 5 V DC/1 mA [H_F]
< 5 x 10^{-6} (1 failure in 5 x 10^6 operations) Fault probability

Use of insulated ferrule ISH 2,8
>24 V AC/DC recommended
>50 V AC or 120 V DC is mandatory, even on unused blade terminals

DESIGN VERIFICATION AS PER IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [I_n]
0 A

Heat dissipation per pole, current-dependent [P_{vid}]
0 W

Equipment heat dissipation, current-dependent [P_{vid}]
0 W

Static heat dissipation, non-current-dependent [P_{vs}]
0 W

Heat dissipation capacity [P_{diss}]
0 W

Operating ambient temperature min.
-25 °C

Operating ambient temperature max.

+60 °C

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 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 parts
10.2.3.2 Verification of resistance of insulating materials to normal heat
Meets the product standard's requirements.

10.2 Strength of materials and parts
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 Strength of materials and parts
10.2.4 Resistance to ultra-violet (UV) radiation
Please enquire

10.2 Strength of materials and parts
10.2.5 Lifting
Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts
10.2.6 Mechanical impact
Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts
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 Insulation properties
10.9.3 Impulse withstand voltage
Is the panel builder's responsibility.

10.9 Insulation properties
10.9.4 Testing of enclosures made of insulating material
Is the panel builder's responsibility.

10.10 Temperature rise
Not applicable.

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) / Front element for push button (EC000221)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for push-button actuators (ecl@ss10.0.1-27-37-12-10 [AKF028014])

Colour button
Yellow

Number of command positions
1

Construction type lens
Square

Hole diameter
16 mm

Width opening
0 mm

Height opening
0 mm

Type of button
Flat

Suitable for illumination
Yes

With protective cover
No

Labelled
No

Switching function latching
No

Spring-return
Yes

With front ring
Yes

Material front ring
Plastic

Colour front ring
Black

Degree of protection (IP), front side
IP65

Degree of protection (NEMA), front side
1

APPROVALS

Product Standards
IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking

UL File No.
E29184

UL Category Control No.
NKCR

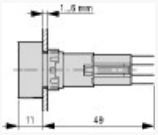
CSA File No.
46552

CSA Class No.
3211-03

North America Certification
UL listed, CSA certified

Degree of Protection
UL/CSA Type 1

DIMENSIONS



Actuating and indicator elements
Square style