



**087918**  
**Q18LTR-RT**

Overview

Specifications

Resources



Delivery program

Technical data

Design verification as per IEC/EN 61439

Technical data ETIM 7.0

Approvals

Dimensions

## DELIVERY PROGRAM

Product range  
RMQ16

Basic function  
Illuminated pushbutton actuators

Mounting hole diameter [□]  
16 mm

Single unit/Complete unit  
Single unit

Design  
Flat

maintained

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

## Colour

Lens



## Button plate

button plate  
red

Button plate



Blank

Degree of Protection  
IP65

Connection to SmartWire-DT  
no

## TECHNICAL DATA

### General

Standards  
IEC/EN 60947

Lifespan, mechanical [Operations]  
> 30 x 10<sup>6</sup>

Operating frequency [Operations/h]  
 1800

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

Terminal capacities

0.5 - 1.0 mm<sup>2</sup>

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 [ $I_F$ ]  
<  $10^{-7}$ , < 1 fault in  $10^7$  operations Fault probability

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

Use of insulated ferrule ISH2,8  
>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 (EC0000221)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for push-button actuators (ec1@ss10.0.1-27-37-12-10 [AKF028014])

Colour button  
Red

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  
Yes

Spring-return  
No

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

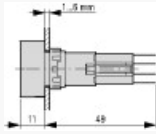
CSA Class No.  
3211-03

North America Certification  
UL listed, CSA certified

Degree of Protection  
UL/CSA Type 1



## DIMENSIONS



Actuating and indicator elements  
Square style



