DATASHEET - Q25LWK1R-WS/WB

Illuminated selector switch actuator, maintained, 45°, 25 × 25 mm, 2 positions, With thumb-grip, White, with VS anti-rotation tab, with filament bulb, 24 V

Powering Business Worldwide

Part no. Q25LWK1R-WS/WB
040476

General specifications

Product name	Eaton Moeller® series RMQ16 Illuminated selector switch actuator
Part no.	Q25LWK1R-WS/WB
EAN	4015080404767
Product Length/Depth	75 millimetre
Product height	25 millimetre
Product width	25 millimetre
Product weight	0.017 kilogram
Certifications	CSA Class No.: 3211-03 UL IEC/EN 60947 IEC/EN 60947-5 UL 508 CSA-C22.2 No. 14-05 UL File No.: E29184 CSA CE UL Category Control No.: NKCR CSA File No.: 46552
Product Tradename	RMQ16
Product Type	Illuminated selector switch actuator
Product Sub Type	None
Catalog Notes	Use of insulated ferrule ISH 2,8 > 24 V AC/DC recommended Use of insulated ferrule ISH 2,8 > 50 V AC or 120 V DC is mandatory, even on unused blade terminals

Features & Functions

Bezel color	Black
Bezel material	Plastic
Design	With thumb-grip
Fitted with:	VS anti-rotation tab Filament bulb (24 V)

General information

Degree of protection	NEMA 1
Degree of protection (front side)	IP65
Lifespan, mechanical	3,000,000 Operations
Opening diameter	16 mm
Operating frequency	1800 Operations/h
Operating torque	0.2 N·m
Overvoltage category	III
Pollution degree	3
Product category	RMQ16
Size	Front dimensions: 25 × 25 mm
Rated impulse withstand voltage (Uimp)	800 V AC
Suitable for	Illumination
Switching angle	45 °
Terminal capacity	0.5 - 1.0 mm^2
Terminal size	2.8 x 0.8 mm to DIN 46247 and IEC 60760, Fast-on connectors 2.8 x 0.8 mm to DIN 46244, Blade terminal
Type	Illuminated selector switch actuator

Ambient conditions, mechanical

Mounting position	As required
Shock resistance	40 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms Mechanical, According to IEC/EN 60068-2-27

Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	60 °C
Ambient operating temperature (enclosed) - min	25 °C
Ambient operating temperature (enclosed) - max	40 °C
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Electrical rating	
Rated insulation voltage (Ui)	250 V
Rated operational voltage (Ue) at AC - max	24 V
Actuator	
Actuator color	Black
Actuator function	Maintained Switching function latching
Actuator type	Toggle
Number of switch positions	2
Contacts	
Control circuit reliability	1 failure per 10,000,000 switching operations (Statistically determined, at 24 V DC/5 mA) 1 failure per 5,000,000 switching operations (statistically determined, at 5 V DC/1 mA)
Communication	
Connection to SmartWire-DT	No
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0 W
Rated operational current for specified heat dissipation (In)	0 A
Static heat dissipation, non-current-dependent Pvs	1 W
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	Please enquire
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.
10.9.2 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 9.0

Low-voltage industrial components (EG000017) / Front element for selector switch (EC000222)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for selector switches (ecl@ss13-27-37-12-13 [AKF031019])			
Number of switch positions			2
Type of control element			Toggle
Suitable for illumination			Yes
Colour control element			Black
Colour indicator light cap			White
Construction type lens			Square
Hole diameter		mm	16
Width opening		mm	0
Height opening		mm	0
Switching function latching			Yes
Spring-return			No
With front ring			No
Material front ring			Plastic
Colour front ring			Black
Degree of protection (IP), front side			IP65
Degree of protection (NEMA)			1