

Illuminated selector switch actuator, maintained, 45°, 18 x 18 mm, 2 positions, With thumb-grip, green, with VS anti-rotation tab, with filament bulb, 24 V

Part no. Q18LWK1R-GN/WB
Catalog No. 039247
Alternate Catalog No. Q18LWK1R-GN-WB

Delivery program

Product range		RMQ16
Basic function		Illuminated selector switch actuator
Mounting hole diameter	Ø	mm 16
Single unit/Complete unit		Single unit
Design		With thumb-grip maintained
Function:		
		↙ 45°
Description		with VS anti-rotation tab with filament bulb, 24 V
		2 positions
Colour		
Thumb-grip		green
Degree of Protection		IP65
Connection to SmartWire-DT		no

Technical data

General		
Standards		IEC/EN 60947
Lifespan, mechanical	Operations x 10 ⁶	> 3
Operating frequency	Operations/h	≤ 1800
Operating torque	Nm	≤ 0.2
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	°C	-25 - +60
Enclosed	°C	- 25 - 40
Mounting position		As required
Mechanical shock resistance	g	> 40 according to IEC 60068-2-27 Shock duration 11 ms Sinusoidal
Terminal capacities	mm ²	0.5 - 1.0
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}	V AC	800
Rated insulation voltage	U _i	V	250
Oversupply category/pollution degree			III/3
Rated operational voltage	U _e	V AC	24
Control circuit reliability			
at 24 V DC/5 mA	H _F	Fault probability	< 10 ⁻⁷ (i.e. 1 failure to 10 ⁷ operations)
at 5 V DC/1 mA	H _F	Fault probability	< 5 x 10 ⁻⁶ (1 failure in 5 x 10 ⁶ operations)
Use of insulated ferrule ISH 2,8			> 24 V AC/DC recommended

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	A	0
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	1
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	60
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			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 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 8.0

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@ss10.0.1-27-37-12-13 [AKF031014])		
Number of switch positions		2
Type of control element		Toggle
Suitable for illumination		Yes
Colour control element		Black
Colour indicator light cap		Green
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		Yes

Material front ring		Plastic
Colour front ring		Black
Degree of protection (IP), front side		IP65
Degree of protection (NEMA)		1