

# Specifications



## Eaton 038978

Eaton Moeller® series RMQ16 Illuminated selector switch actuator, momentary, 45°, 18 × 18 mm, 2 positions, With thumb-grip, White, with VS anti-rotation tab, with filament bulb, 24 V

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series RMQ16 Illuminated selector switch actuator
<b>CATALOG NUMBER</b>	038978
<b>EAN</b>	4015080389781
<b>PRODUCT LENGTH/DEPTH</b>	75 mm
<b>PRODUCT HEIGHT</b>	18 mm
<b>PRODUCT WIDTH</b>	18 mm
<b>PRODUCT WEIGHT</b>	0.014 kg
<b>CERTIFICATIONS</b>	CSA Class No.: 3211-03 IEC/EN 60947 UL Category Control No.: NKCR IEC/EN 60947-5 UL File No.: E29184 CSA-C22.2 No. 14-05 UL CSA File No.: 46552 CE CSA UL 508
<b>MODEL CODE</b>	Q18LWK1-WS/WB

## Features & Functions

<b>BEZEL COLOR</b>	Black
<b>BEZEL MATERIAL</b>	Plastic
<b>DESIGN</b>	With thumb-grip
<b>FITTED WITH:</b>	Filament bulb (24 V) VS anti-rotation tab

## General

<b>DEGREE OF PROTECTION</b>	NEMA 1
<b>DEGREE OF PROTECTION (FRONT SIDE)</b>	IP65
<b>LIFESPAN, MECHANICAL</b>	3,000,000 Operations
<b>OPENING DIAMETER</b>	16 mm
<b>OPERATING FREQUENCY</b>	1800 Operations/h
<b>OPERATING TORQUE</b>	0.2 Nm
<b>OVERVOLTAGE CATEGORY</b>	III
<b>POLLUTION DEGREE</b>	3
<b>PRODUCT CATEGORY</b>	RMQ16
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	800 V AC
<b>SIZE</b>	Front dimensions: 18 x 18 mm
<b>SUITABLE FOR</b>	Illumination
<b>SWITCHING ANGLE</b>	45 °
<b>TERMINAL CAPACITY</b>	0.5 - 1.0 mm <sup>2</sup>
<b>TERMINAL SIZE</b>	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
<b>TYPE</b>	Illuminated selector switch actuator

## Ambient conditions, mechanical

<b>MOUNTING POSITION</b>	As required
<b>SHOCK RESISTANCE</b>	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

<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	60 °C
<b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN</b>	25 °C
<b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX</b>	40 °C
<b>CLIMATIC PROOFING</b>	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78

## Electrical rating

<b>RATED INSULATION VOLTAGE (UI)</b>	250 V
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<b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b>	24 V
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## Communication

<b>CONNECTION TO SMARTWIRE-DT</b>	No
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## Actuator

<b>ACTUATOR COLOR</b>	Black
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<b>ACTUATOR FUNCTION</b>	Spring-return Momentary
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<b>ACTUATOR TYPE</b>	Toggle
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<b>NUMBER OF SWITCH POSITIONS</b>	2
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## Design verification

<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	0 W
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<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
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<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	0 W
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<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	0 A
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<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	1 W
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<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
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<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
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<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
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<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
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<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Please enquire
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<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be evaluated.
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<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be evaluated.
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<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## Resources

### CATALOGUES

[eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf](#)

[eaton-rmq-titan-brochure-br047004en-en-us.pdf](#)

### DECLARATIONS OF CONFORMITY

[DA-DC-00004158.pdf](#)

[DA-DC-00004136.pdf](#)

### DRAWINGS

[eaton-operating-switch-rmq16-dimensions.eps](#)

[eaton-operating-button-symbol-013.eps](#)

### ECAD MODEL

[eaton-rmq16-illuminated-selector-switch-actuator-eplan-038978.edz](#)

### INSTALLATION INSTRUCTIONS

[IL04716016Z](#)

### MCAD MODEL

[DA-CS-wahl\\_18](#)

[DA-CD-wahl\\_18](#)

[leuchtwahl\\_18.stp](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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