DATASHEET - Q25LWK1-WS/WB

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



Part no.

Q25LWK1-WS/WB 040379

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FAI Add See Add	Product name	Eaton Moeller® series RMQ16 Illuminated selector switch actuator
Product knight Product wight Product knight 25 millinetre Product wight 0017 Niogram Product wight 0017 Niogram Deficiencies Samilanet encode and	Part no.	Q25LWK1-WS/WB
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Product weight Exit Fille Not. 48021 Cardications CSA File Not. 48021 Cardications CSA File Not. 48021 Product Should Sho	Product height	25 millimetre
Centifications SSA Fin Anc: 4850 Centifications Sake Fin Anc: 4850 Product Todename CEC PROBENTS Product Todename MMD16 Product Togename MMD16 Beal color Black	Product width	25 millimetre
Poduct Tradename Image: CPC NORPH-S Image: CPC NORPH-S Image: CPC NORPH-S Image: CPC NORPH-S Image: CPC NORPH-S	Product weight	0.017 kilogram
Product Typo Imminated selector switch actustor Product Sub Typo None Catalog Notes See of insulated ferrule SH 2.8 - 24 VAC/OF recommended Use of insulated ferrule SH 2.8 - 50 VAC or 120 VDC is mendatory, even on unase based instantial Features & Functions Beat Beat Beat Beat Black Beat Black Design Plastic Pited with: Plastic Beat Samination Degree of protection from table Features Degree of protection from table Features Degree of protection from table Samoonsonthal Operating frequency Samoonsonthal Operating frequency Samoonsonthal Operating troque Samoonsonthal Satable for Samoonsonthal Satable for Satable for Satable for Sat	Certifications	IEC/EN 60947 IEC/EN 60947-5 UL File No.: E29184 UL Category Control No.: NKCR CSA-C22.2 No. 14-05 CSA Class No.: 3211-03 UL CSA CE
Product Sub Type None Catalog Notes Use of insclated farmule SH2 28 > 24 VAC/DC recommended Use of insclated farmule SH2 28 > 50 VAC or 120 VAC or 120 VDC is mendetory, even on unuse blade terminals Features & Functions Features & Functions Bescel color Bask Bescel color Black Design Plask Reter information View of insclated farmule SH2 28 > 20 VAC or 120 VDC is mendetory, even on unuse blade terminals Design Plask Bescel color Black Bescel material View of insclated farmule SH2 28 > 30 VAC or 120 VDC is mendetory, even on unuse blade terminals Bescel material Plask Bescel material Plask Bescel material View of insclated farmule SH2 28 > 30 VAC or 120 VDC is mendetory, even on unuse Design View of insclated farmule SH2 28 > 30 VAC or 120 VDC is mendetory, even on unuse Bescel material Plask Design View of insclated farmule SH2 28 > 30 VAC or 120 VDC is mendetory, even on unuse Design View of insclated farmule SH2 28 > 30 VAC or 120 VDC is mendetory, even on unuse Degree of protection NEMA 1 Operating farguency NEMA 1 Operating farguency Stowenoticols <td>Product Tradename</td> <td>RMQ16</td>	Product Tradename	RMQ16
Catalog Notes Use of insulated farule ISH 2.8 > 24 V AC/DC recommended Use of insulated farule ISH 2.8 > 26 V AC/D or 120 V DC is mandatory, even on unuse backet seminals Features & Functions Bisck Bazel color Bisck Bazel material Bisck Design Flate with: Fitted with: With thumb-grip Fitted with: With thumb-grip Fitted with: With thumb-grip Degree of protection NEMA 1 Degree of protection (front side) NEMA 1 Degree of protection (front side) NEMA 1 Operating frequency 1000 Operations Size A		Illuminated selector switch actuator
Basel color Basel color Black Besel color Black Black Besel color Black Black Design Plastic Black Design With thumb-grip Fitted with: Visite of the state of	Product Sub Type	
Bazel color Back Bezel material Platic Design With thumb-grip Fitted with: VS anti-rotation tab graph Fitted with: VS anti-rotation tab graph Degree of protection VS anti-rotation tab graph Degree of protection (front side) VS anti-rotation side) Degree of protection (front side) VS anti-rotations Operating fragmency S000,000 Operations/h Operating traguency S00 Operations/h Operating traguency UI Operating traguency UI Operating traguency UI Operating traguency UI Operating torque O2 Nrm Overvoltage category III Pollucion degree S00 V AC State South category State for South category State for South category Terminal capacity South category State for South category State for South category State for South category State for	Catalog Notes	Use of insulated ferrule ISH 2,8 > 50 V AC or 120 V DC is mandatory, even on unuse
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Design With thumb-grip Fitted with: YS anti-rotation tab Filament bulk (24 V) General information YS anti-rotation tab Filament bulk (24 V) Degree of protection NEMA 1 Degree of protection (front side) NEMA 1 Urfsgen, mechanical 3,000,000 Operations Opening diameter 3,000,000 Operations Operating frequency 16 mm Operating frequency 100 Operations/h Operating trequency 100 Operations/h Operating trequency 101 Maccollegations/h Overvoltage category 11 Pollution degree 3 Product category 11 Size Munination Size Munination Suitable for 100 VAC Switchig angle 5 - 0 mm ² Terminal size 28 x 08 mm to DIN 48247 and IEE 80760, Fast-on connectors 28 x 08 mm to DIN 48244, Blade terminal 48 of 00000, Fast-on connectors 28 x 0.8 mm to DIN 48244, Blade terminal 48 of 00000, Fast-on connectors 28 x 0.8 mm to DIN 48244, Blade terminal 48 of 00000, Fast-on connectors 28 x 0.8 mm to DIN 48244, Blade terminal 48 of 00000, Fast-on connectors 28 x 0.8 mm to DIN 48244, Blade terminal 48 of 00000, Fast-on connectors 28 x 0.8 mm to DIN 48244, Blade terminal 48 of 00000, Fast-on connectors 28 x 0.8 mm to DIN 48244, Blade terminal 48 of 00000, Fast-on connectors 28 x 0.8 mm to DIN 48244, Blade terminal 48 of 000000, Fast-on connectors 28 x 0.8 mm to DIN 48244, Blade terminal 48 of 00	Bezel color	Black
Fitted with: YS anti-rotation tab Filament bulb (24 V) Ceneral information MEMA 1 Degree of protection MEMA 1 Degree of protection (front side) IFP5 Lifespan, mechanical 3000,000 Operations Operating frequency 16 mm Operating frequency 1800 Operations/h Operating torque 0.2 N·m Overvoltage category III Pollution degree 3 Product category MID16 Size Font dimensions: 25 × 25 mm Rated impulse withstand voltage (Uimp) 800 V AC Suitable for IIIumination Switching angle 2.8 × 0.8 mm to DIN 46247 and IEC 60706, Fast-on connectors 2.8 × 0.8 mm to DIN 46244, Blade terminal Terminal size 2.8 × 0.8 mm to DIN 46244, Blade terminal Type Iluminated selector switch actuator Mounting position Shock resistance	Bezel material	Plastic
Filament bub (24 V) General information Filament bub (24 V) General information Filament bub (24 V) Degree of protection KEMA 1 Degree of protection (front side) KEMA 1 Degree of protection (front side) KEMA 1 Lifespan, mechanical Good Operations Operating frequency Good Operations/h Operating trequency Read Operating trequency Read Overrotatage category Read Product category Read Size Read Size South from and company Size South for Humination Size South for Humination Terminal capacity South for South for and context for and	Design	With thumb-grip
Degree of protection NEMA 1 Degree of protection (front side) P65 Lifespan, mechanical 3000.000 Operations Opening diameter 16 mm Operating frequency 1800 Operations/h Operating torque 2.2 Nm Overvoltage category III Pollution degree 3 Product category NdL 6 Size Fond timensions: 25 × 25 mm Rated impulse withstand voltage (Uimp) 600 ∨ AC Switching angle 45 ° Terminal capacity 2.8 × 0.8 mm to DIM 46247 and IEC 60760, Fast-on connectors 2.8 × 0.8 mm to DIM 46247 and IEC 60760, Fast-on connectors 2.8 × 0.8 mm to DIM 46247 and IEC 60760, Fast-on connectors 2.8 × 0.8 mm to DIM 46247 and IEC 60760, Fast-on connectors 2.8 × 0.8 mm to DIM 46247 and IEC 60760, Fast-on connectors 2.8 × 0.8 mm to DIM 46247 and IEC 60760, Fast-on connectors 2.8 × 0.8 mm to DIM 46247 and IEC 60760, Fast-on connectors 2.8 × 0.8 mm to DIM 46247 and IEC 60760, Fast-on connectors 2.8 × 0.8 mm to DIM 46247 and IEC 60760, Fast-on connectors 2.8 × 0.8 mm to DIM 46247 and IEC 60760, Fast-on connectors 2.8 × 0.8 mm to DIM 46247 and IEC 60760, Fast-on connectors 2.8 × 0.8 mm to DIM 46247 and IEC 60760, Fast-on connectors 2.8 × 0.8 mm to DIM 46247 and IEC 60760, Fast-on connectors 2.8 × 0.8 mm to DIM 46247 and IEC 60760, Fast-on connectors 2.8 × 0.8 mm to DIM 46247 and IEC 60760, Fast-on connectors 2.8 × 0.8 mm to DIM 46244, Blade terminal Torminal size	Fitted with:	
Degree of protection (front side) IP65 Lifespan, mechanical 3000,000 Operations Operating diameter 16 mm Operating frequency 1800 Operations/h Operating torque 0.2 N·m Overvoltage category III Pollution degree 3 Product category RM016 Size Front dimensions: 25 × 25 mm Rated impulse withstand voltage (Uimp) 800 V AC Switching angle 55 ° Terminal capacity 0.5 ° 1.0 mm ³ Terminal size 0.5 ° 1.0 mm ³ Type Illuminated selector switch act uator Ambient conditions, mechanical Mouting position Mounting position Mouting position	General information	
Lifespan, mechanical Image: Space of the	Degree of protection	NEMA 1
Opening diameter Image: Constraint of the constenece of the constraint of the constraint of	Degree of protection (front side)	IP65
Operating frequency 1800 Operations/h Operating torque 0.2 N·m Overvoltage category 111 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 ³ Terminal size 2.8 × 0.8 mm to DIN 46247, and IEC 60760, Fast-on connectors 2.8 × 0.8 mm to DIN 46244, Blade terminal Type Illuminated selector switch actuator Ambient conditions, mechanical As required Mounting position As required Shock resistance 40 g, Mechanical, According to IEC/EN 500068-2-27, Sinusoidal shock 11 ms	Lifespan, mechanical	3,000,000 Operations
Operating torque 0.2 N·m Overvoltage category III Pollution degree 3 Product category RM016 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 mm² Terminal size 2.8 × 0.8 mm to DIN 46247 and IEC 60760, Fast-on connectors 2.8 × 0.8 mm to DIN 46244, Blade terminal Mounting position Mounting position Mounting position As required Shock resistance 40 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms	Opening diameter	16 mm
Overvoltage category III Pollution degree 3 Product category RM016 Size Front dimensions: 25 × 25 mm Rated impulse withstand voltage (Uimp) 800 V AC Suitable for IIIumination Switching angle 45 ° Terminal capacity 0.5 - 1.0 mm² 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 As required Shock resistance As required	Operating frequency	1800 Operations/h
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 mm² Terminal size 2.8 × 0.8 mm to DIN 46247 and IEC 60760, Fast-on connectors 2.8 × 0.8 mm to DIN 46244, Blade terminal Type Illuminated selector switch actuator Mounting position As required Shock resistance 4s required	Operating torque	0.2 N·m
Product category RMQ16 Size Front dimensions: 25 × 25 mm Rated impulse withstand voltage (Uimp) 800 V AC Suitable for Illumination Switching angle 500 V AC Terminal capacity 0.5 - 1.0 mm ² Terminal size 0.5 - 0.0 mm ² Type 28 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 Mounting position Anbient conditions, mechanical Shock resistance As required	Overvoltage category	
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 mm² Terminal size 2.8 × 0.8 mm to DIN 46247 and IEC 60760, Fast-on connectors 2.8 × 0.8 mm to DIN 46244, Blade terminal Type Illumination Mounting position As required Shock resistance 49 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms	Pollution degree	3
Rated impulse withstand voltage (Uimp) 800 V AC Suitable for Illumination Switching angle 45 ° Terminal capacity 0.5 - 1.0 mm² Terminal size 28 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 Mounting position As required Shock resistance 40 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms	Product category	RMQ16
Suitable for Illumination Switching angle 45 ° Terminal capacity 0.5 - 1.0 mm² 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 Illuminated selector switch actuator Shock resistance As required	Size	Front dimensions: 25 × 25 mm
Switching angle 45° Terminal capacity 0.5 - 1.0 mm² 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 As required Shock resistance 45°	Rated impulse withstand voltage (Uimp)	800 V AC
Terminal capacity 0.5 - 1.0 mm² 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 Image: Condition of the selector switch actuator Mounting position As required Shock resistance 40 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms	Suitable for	Illumination
Terminal size 28 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 Illuminated selector switch actuator Mounting position As required Shock resistance 40 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms	Switching angle	45 °
Type Illuminated selector switch actuator Ambient conditions, mechanical Ambient conditions, mechanical Mounting position As required Shock resistance 40 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms	Terminal capacity	0.5 - 1.0 mm ²
Ambient conditions, mechanical Ambient conditions, mechanical Mounting position As required Shock resistance 40 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms	Terminal size	
Mounting position As required Shock resistance 40 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms		Illuminated selector switch actuator
Shock resistance 40 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms	Ambient conditions, mechanical	
Shock resistance 40 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms Mechanical, According to IEC/EN 60068-2-27	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, cyclic, to IEC 60068-2-30
	Damp heat, constant, to IEC 60068-2-78
Electrical rating	
Rated insulation voltage (Ui)	250 V
Rated operational voltage (Ue) at AC - max	24 V
Actuator	
Actuator color	Black
Actuator function	Momentary Spring-return
Actuator type	Toggle
Number of switch positions	2
Contacts	
Control circuit reliability	1 failure per 5,000,000 switching operations (statistically determined, at 5 V DC/1
	mA)
	1 failure per 10,000,000 switching operations (Statistically determined, at 24 V DC/5 mA)
Communication	
Connection to SmartWire-DT	No
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
	0 W
Heat dissipation per pole, current-dependent Pvid	0A
Rated operational current for specified heat dissipation (In) 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		No
Spring-return		Yes
With front ring		No
Material front ring		Plastic
Colour front ring		Black
Degree of protection (IP), front side		IP65
Degree of protection (NEMA)		1