Illuminated selector switch actuator, RMQ-Titan, With thumb-grip, momentary, 2 positions, White, Bezel: titanium



Part no. M22-WLK-W

216812

EL Number (Norway)

4355710

(Norway)	
General specifications	
Product name	Eaton Moeller® series M22 Illuminated selector switch actuator
Part no.	M22-WLK-W
EAN	4015082168124
Product Length/Depth	46 millimetre
Product height	30 millimetre
Product width	30 millimetre
Product weight	0.013 kilogram
Compliances	CE Marked
Certifications	UL 508 CSA Std. C22.2 No. 94-91 CSA Std. C22.2 No. 14-05 IEC 60947-5 EN 60947-5 VDE CSA Class No.: 3211-03 VDE 0660 UL IEC/EN 60947-5 UL Category Control No.: NKCR UL File No.: E29184 IEC/EN 60947 CSA-C22.2 No. 94-91 CSA-C22.2 No. 14-05 CSA CE CSA File No.: 012528
Product Tradename	M22
Product Type	Illuminated selector switch actuator
Product Sub Type	None
Features & Functions	
Bezel color	Titanium
Bezel material	Plastic
Color	White
Design	With thumb-grip
Fitted with:	Front ring
Functions	Stay-put/spring-return function, can be changed with coding parts M22-XC-Y
General information	
Accessories	Thumb grip
Degree of protection	NEMA 4X, 13
Degree of protection (front side)	IP66
Lifespan, mechanical	100,000 Operations
Opening diameter	22.5 mm
Operating frequency	2000 Operations/h
Operating torque	0.3 N·m
Product category	RMQ-Titan
Size	Front diameter: 29.7 mm
Suitable for	Illumination
Switching angle	40 °
Туре	Illuminated selector switch actuator
Ambient conditions, mechanical	
Mounting position	As required
Shock resistance	30 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms Mechanical, According to IEC/EN 60068-2-27

Equipment heat dissipation, current-dependent Pvid  Heat dissipation capacity Pdiss  OW  Rated operational current for specified heat dissipation (In)  Static heat dissipation, non-current for specified heat dissipation (In)  OA  Static heat dissipation, non-current-dependent Pvid  OW  10.2.2 Corrosion resistance  Meets the product standard's requirements.  I0.2.3.1 Verification of thermal stability of enclosures  Meets the product standard's requirements.  I0.2.3.2 Resist of insul. mat. to abnormal heat/fire by internal elect. effects  Meets the product standard's requirements.  I0.2.4 Resistance to ultra-violet (UV) radiation  I0.2.5 Lifting  Does not apply, since the entire switchgear needs to be evaluated.  I0.2.7 Inscriptions  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  I0.5 Protection against electric shock  Does not apply, since the entire switchgear needs to be evaluated.  I0.6 Incorporation of switching devices and components  Does not apply, since the entire switchgear needs to be evaluated.  I0.7 Internal electrical circuits and connections  Is the panel builder's responsibility.  I0.9.2 Power-frequency electric strength  Is the panel builder's responsibility.  I0.9.3 Inputs withstand voltage  Is the panel builder's responsibility. The specifications for the switchgear must be observed.	Climatic environmental conditions	
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Damp heat cyclic, to IED 80088-2-30 Communication Connection to SmartWire-DT Actuator Actuator function Actuator function Actuator type Actuat	Ambient operating temperature - max	70 °C
Connection to SmartWire-DT  Actuator  Actuator color  Actuator function  Actuator function  Actuator function  Actuator function  Actuator function  Actuator function  Actuator reper  Actuator function  Actuator reper  Actuator function  Actuator reper  Actuator reper  Actuator function  Actuator reper  Actuator function  Actuator reper  Actuator reper  Number of switch positions  Positions  Force for positive opening - min  Design verification  Equipment heat dissipation, current-dependent Pvid  OW  Heat dissipation capacity Pdiss  Heat dissipation per pole, current-dependent Pvid  OW  Heat dissipation capacity Pdiss  Heat dissipation per pole, current-dependent Pvid  OW  Rated operational current for specified heat dissipation (In)  OA  Static heat dissipation, non-current-dependent Pvi  10.2.2 Corrosion resistance  10.2.3.1 Verification of thermal stability of ancibusors  10.2.2.3 Verification of termal stability of ancibusors  10.2.3.2 Verification of termal stability of ancibusors  10.2.3.3 Result capacity actual materials to normal heat  10.2.3.3 Result capacity actual materials to normal heat  10.2.3.3 Result capacity actual materials to normal heat  10.2.4 Resistance to ultra-violet (UV) radiation  10.2.5 Lifting  Does not apply, since the entire switchgar needs to be evaluated.  10.2.5 Incorporation of assemblies  Does not apply, since the entire switchgar needs to be evaluated.  10.3 Forcection against electric stander's representative.  10.3 Forcection against electric stander's representative.  10.3 Forcection against electric stander's representative.  10.3 Incorporation of switching devices and compenents  10.3 Connections for advarral conductors  10.3 Incorporation of avaiching devices and compenents  10.3 Incorporation of switching devices and compenents  10.3 Incorporation of switching devices and compenents  10.3 Incorporation of avaiching devices and compenents  10.3 Incorporation of avaiching devices and compenents  10.4 Legactic actual and connections  10.5 Incorporation of avaiching device	Climatic proofing	
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Actuator eolor Actuator function  Actuator type Actuator type Number of switch positions  Contacts Face for positive opening - min  Design verification  Equipment heat dissipation, current-dependent Pvid Heat dissipation, current-dependent Pvid Heat dissipation apacity Pdiss  OW  Heat dissipation apacity Pdiss OW  Heat dissipation apacity Pdiss OW  Heat dissipation apacity Pdiss OW  Heat dissipation are prole, current-dependent Pvid OW  Heat dissipation are prole, current-dependent Pvid OW  10.2.2 Corrosion resistance Mests the product standard's requirements.  10.2.2.3 Verification of fresistance of insulating materials to normal heat 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Resist of insul. mat. to abnormal heat/fire by internal elect. effects Obes not apply, since the entire switchgear needs to be avaluated.  10.2.4 Resistance to ultra-violet (UV) radiation Obes not apply, since the entire switchgear needs to be avaluated.  10.2.5 United to a play the entire switchgear needs to be avaluated.  10.2.1 Resistance and creepage distances Obes not apply, since the entire switchgear needs to be avaluated.  10.4 Clearnoce and creepage distances Obes not apply, since the entire switchgear needs to be avaluated.  10.4 Clearnoce and creepage distances Obes not apply, since the entire switchgear needs to be avaluated.  10.5 Protoction against electric shock Obes not apply, since the entire switchgear needs to be avaluated.  10.6 Connections of switching devices and components Obes not apply, since the entire switchgear needs to be avaluated.  10.7 Internal electrical circuits and connections Obes not apply, since the entire switchgear needs to be evaluated.  10.8 Connections of switching devices and components Obes not apply, since the entire switchgear needs to be evaluated.  10.9 Temperature rise Obes not apply, since the entire switchgear needs to be evaluated.  10.1 Internal electrical circuits and connections Site panel builder's responsibility.  10.2 Power-frequency elect	Connection to SmartWire-DT	
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Rumber of switch positions  Contacts  Force for positive opening - min  Design verification  Equipment heat dissipation, current-dependent Pvid  Heat dissipation capacity Pdiss  OW  Heat dissipation per pola, current-dependent Pvid  Heat dissipation per pola, current-dependent Pvid  Rated operational current for specified heat dissipation (In)  Static heat dissipation, non-current-dependent Pvid  10.2.2 Corrosion resistance  Meets the product standard's requirements.  10.2.3.1 Verification of thermal stability of enclosures  10.2.3.2 Verification of resistance of insulating materials to normal heat  10.2.3.2 Verification of resistance of insulating material to normal heat  10.2.4 Resistance to ultra-violet (IV) radiation  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 Negree 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  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.  10.9.4 Tearing electrical circuits and connections  Is the panel builder's responsibility.  10.9.4 Tearing enclosures made of insulating material  10.1 Temperature rise  Not applicable.  10.10 Temperature rise  10.11 Short-circuit rating  Lectromaperatic 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  The device meets the requirements, provided the information in the instruction	Actuator function	·
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10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects  10.2.4 Resistance to ultra-violet (UV) radiation  10.2.5 Lifting  10.2.6 Mechanical impact  10.2.7 Inscriptions  10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.12 Electromagnetic compatibility  10.13 Mechanical function  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  In the device meets the requirements, provided the information in the instruction.	10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation  Please enquire  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.  Meets the product standard's requirements.  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.  10.10 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	10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
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.  10.9.2 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  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  The device meets the requirements, provided the information in the instruction	10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
10.2.6 Mechanical impact  10.2.7 Inscriptions  Meets the product standard's requirements.  10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  Meets the product standard's requirements.  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.13 Mechanical function  10.20 Sassemblies  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  The specifications for the switchgear must be observed.  10.12 Electromagnetic compatibility  The specifications for the switchgear must be observed.	10.2.4 Resistance to ultra-violet (UV) radiation	Please enquire
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.  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.  10.9.4 Testing of enclosures made of insulating material  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  The device meets the requirements, provided the information in the instruction	10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  The specifications for the switchgear must be observed.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.	10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  Not applicable.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  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	10.2.7 Inscriptions	Meets the product standard's requirements.
10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.13 Mechanical function  10.15 Protection against electric shock  Does not apply, since the entire switchgear needs to be evaluated.  10.16 Is the panel builder's responsibility.  11.17 Is the panel builder's responsibility.  12.18 Is the panel builder's responsibility.  13.19 Is the panel builder's responsibility.  14.19 Is the panel builder's responsibility.  15.19 Is the panel builder's responsibility. The specifications for the switchgear must be observed.  16.19 Is the panel builder's responsibility. The specifications for the switchgear must be observed.  17.10 Temperature rise  18.10 Is the panel builder's responsibility. The specifications for the switchgear must be observed.  19.10 Is the panel builder's responsibility. The specifications for the switchgear must be observed.  19.11 Short-circuit rating  19.12 Electromagnetic compatibility  19.12 Electromagnetic compatibility  19.14 Electromagnetic compatibility  19.15 Is the panel builder's responsibility. The specifications for the switchgear must be observed.  19.18 The device meets the requirements, provided the information in the instruction	10.3 Degree of protection of assemblies	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  1s the panel builder's responsibility.  10.8 Connections for external conductors  1s the panel builder's responsibility.  10.9.2 Power-frequency electric strength  1s the panel builder's responsibility.  1s the panel builder's responsibility. The specifications for the switchgear must be observed.  1s the panel builder's responsibility. The specifications for the switchgear must be observed.  1s the panel builder's responsibility. The specifications for the switchgear must be observed.  1s the panel builder's responsibility. The specifications for the switchgear must be observed.  1s the panel builder's responsibility. The specifications for the switchgear must be observed.	10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Is the panel builder's responsibility.  Is the panel builder's responsibility.  Not applicable.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  The specifications for the switchgear must be observed.  The device meets the requirements, provided the information in the instruction	10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
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10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Is the panel builder's responsibility.  Not applicable.  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	10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material  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	10.9.2 Power-frequency electric strength	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	10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
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	10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
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	10.10 Temperature rise	Not applicable.
observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	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	

## **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])

[AKTU31019])	
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	Round

Hole diameter	mm	22.5
Width opening	mm	0
Height opening	mm	0
Switching function latching		No
Spring-return		Yes
With front ring		Yes
Material front ring		Plastic
Colour front ring		Titanium
Degree of protection (IP), front side		IP66
Degree of protection (NEMA)		4X, 13