$Change over \ switch, \ RMQ-Titan, \ With \ thumb-grip, \ maintained, \ 2$ positions, Bezel: titanium



Part no. M22-WRK

216867 **EL Number** 4355317 (Norway)

General specifications	
Product name	Eaton Moeller® series M22 Changeover switch
Part no.	M22-WRK
EAN	4015082168674
Product Length/Depth	46 millimetre
Product height	30 millimetre
Product width	30 millimetre
Product weight	0.013 kilogram
Compliances	CE Marked
Certifications	EN 60947-5 UL 508 CSA Std. C22.2 No. 14-05 IEC 60947-5 CSA Std. C22.2 No. 94-91 VDE CSA-C22.2 No. 14-05 IEC/EN 60947-5 CSA UL Category Control No.: NKCR CE CSA-C22.2 No. 94-91 CSA Class No.: 3211-03 IEC/EN 60947 VDE 0660 UL UL File No.: E29184 CSA File No.: 012528 DNV LR GL
Product Tradename	M22
Product Type	Changeover switch
Product Sub Type	None
Features & Functions	
Bezel color	Titanium
Bezel material	Plastic
Color	Black
Design	With thumb-grip Classical
Fitted with:	Front ring
Functions	Stay-put/spring-return function, can be changed with coding parts M22-XC-Y
General information	
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
Switching angle	60 °
Туре	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

Ambient operating temperature - min Ambient operating temperature - max 70°C Ambient storage temperature - max 80°C Communication Connection to SmortWire-D1  Actuator Connection to SmortWire-D1  Actuator Actuator function Black Actuator function Black Actuator function Actuator function Actuator function Connection to SmortWire-D1  Actuator function Connection to SmortWire-D1  Actuator function Connection to SmortWire-D1  Actuator function Actuator function Actuator function Connection to SmortWire-D1  D0 N  D0 N  D0 N  D0 N  D0 N  Metal dissipation propole, current-dependent Pvid Connection to SmortWire-D1  Not Connection to Connection Connection to Connection Connectio	Climatic amiraneantal canditions	
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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.  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 evices 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  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.	10.2.3.2 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.  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  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	10.2.3.3 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  10.9.4 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.  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.	10.2.4 Resistance to ultra-violet (UV) radiation	Please enquire
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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.  The specifications for the switchgear must be observed.  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	10.2.7 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  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.  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.  10.9.3 Impulse withstand voltage  1s the panel builder's responsibility.  10.9.4 Testing of enclosures made of insulating material  1s the panel builder's responsibility.  10.10 Temperature rise  Not applicable.  10.11 Short-circuit rating  1s the panel builder's responsibility. The specifications for the switchgear must be observed.  10.12 Electromagnetic compatibility  1s 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	10.4 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  10.13 Mechanical function  10.14 the panel builder's responsibility.  11.15 the panel builder's responsibility.  12.16 the panel builder's responsibility.  13.17 the specifications for the switchgear must be observed.  14.18 the panel builder's responsibility. The specifications for the switchgear must be observed.  15. 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.  1s 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.  10.13 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])

[AKF031019])	
Number of switch positions	2
Type of control element	Toggle
Suitable for illumination	No
Colour control element	Black

Colour indicator light cap			Other
Construction type lens			Round
Hole diameter	n	mm	22.5
Width opening	n	mm	0
Height opening	n	mm	0
Switching function latching			Yes
Spring-return			No
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