Illuminated pushbutton actuator, RMQ-Titan, Flush, maintained, White, Blank, Bezel: titanium  $\,$ 



Part no. M22-DRL-W 216944

EL Number 4355347

(Norway)

(Norway)	
General specifications	
Product name	Eaton Moeller® series M22 Illuminated pushbutton actuator
Part no.	M22-DRL-W
EAN	4015082169442
Product Length/Depth	30 millimetre
Product height	30 millimetre
Product width	30 millimetre
Product weight	0.012 kilogram
Compliances	CE Marked
Certifications	CSA Std. C22.2 No. 14-05 EN 60947-5 UL 508 IEC 60947-5 CSA Std. C22.2 No. 94-91 VDE UL VDE 0660 CE UL File No.: E29184 CSA-C22.2 No. 94-91 IEC/EN 60947 CSA File No.: 012528 IEC/EN 60947-5 CSA-C22.2 No. 14-05 CSA UL Category Control No.: NKCR CSA Class No.: 3211-03 LR GL DNV
Product Tradename	M22
Product Type	Illuminated pushbutton actuator
Product Sub Type	None
Features & Functions	
Bezel color	Titanium
Bezel material	Plastic
Design	Flush Classical
Fitted with:	Front ring
Functions	Stay-put/spring-return function can be changed on device
Inscription	Blank
Material	Titanium front ring
General information	
Degree of protection	IP69K NEMA 12 NEMA 13 IP67 NEMA 3R NEMA 4X IP66
Degree of protection (front side)	IP67/IP69K NEMA 4X
Lifespan, mechanical	1,000,000 Operations (AC operated)
Opening diameter	22.5 mm
Operating frequency	1800 Operations/h
Product category	RMQ-Titan
Size	Front diameter: 29.7 mm
Suitable for	Illumination

observed.  10.12 Electromagnetic compatibility  Is the panel builder's responsibility. The specifications for the switchgear must observed.	Туре	Illuminated pushbutton actuator
Mounting position Shock resistance Shock	"	
Sheck resistance    May Mechanical, According to ISCEN 18096-2-27 Sincipoidal shock 11 ms Mechanical, According to ISCEN 18096-2-27 Mechanical paradity of ISCEN 18096-2-20 Mechanical paradity of ISCEN 1		As required
Ambient operating temperature - min Ambient operating temperature - max Climatic proofing Communication Communication Communication Commentination Commentination Commentination Commentination Actuating force Actuating force Actuating force Actuating force Actuating force Actuating force Actuation Contacts  Contacts C	•	30 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms
Ambient operating temperature - max  Climate growing  Communication  Comerciation  Comerciation  Comerciation  Comerciation  Comerciation  Comerciation  Actuator  Actuator White  Actuator of positive operating - min  Comerciation  Comerciat	Climatic environmental conditions	
Cinnate proefing Communication Connection to SmortWire DT Actuator Actuator process Actuator Actuator process Actuator Actuator process Actuator Actuator process Actuator of White Actuator process Actuator proc	Ambient operating temperature - min	-25 °C
Damp heat, cyclic, to IEC 68888-2-30  Communication  Connection to SmartWire-DT  Actuator  Actuator rotor  Actuator force  Actuator function  Actuator function  Actuator function  Actuator function  Actuator function  Contacts  Force for positive opening - min  Design verification  Equipment heat dissipation, current-dependent Pvid  Heat dissipation, apactary Pries  Heat dissipation, apactary Pries  Heat dissipation apactary Pries  10-22 Corrosion resistance  10-23 Verification of thermal stability of enclosures  10-23.3 Verification of thermal stability of enclosures  10-23.2 Verification of thermal stability of enclosures  10-23.3 Priesist of insul, mat to abnormal heat/fire by internal elect. effects  10-24. Resistance to turb-videl (IV) radiation  10-25 Lifting  10-26 Protection against electric shock  10-27 Desgropson  10-28 Degree of protection of assamblies  10-28 Protection against electric shock  10-28 Protection against electric shock  10-29 Protection of existing and components  10-29 Des not apply, since the entire switchgear needs to be evaluated.  10-21 Protection of existence shock  10-29 Protection of existing and connections  10-20 Des not apply, since the entire switchgear needs to be evaluated.  10-21 Inscriptions  10-20 Protection of existing devices and components  10-20 Des not apply, since the entire switchgear needs to be evaluated.  10-21 Inscriptions  10-25 Protection of existing devices and components  10-27 Inscriptions  10-28 Contractical circuits and connections  10-29 Protection of existing devices and components  10-29 Protection of existing the conductors  10-29 Protection of existing the conductors  10-20 Protection of existing the conductors  10-29 Protection of exist	Ambient operating temperature - max	70 °C
Connection to SmartWire-DT  Actuator  Actuator   SN Actuator   With SWD-RMQ connections Yes  Actuator color   White   SN Actuator color   White   SN Actuator color   White   SN Actuator color   Sn Actuator color co	Climatic proofing	Damp heat, constant, to IEC 60068-2-78
Connection to SmartVire-OT  Actuating force Actuating force Actuator rolor Actuator function  Possign verification  Equipment heart dissipation, current-dependent Pvid Dos Sign verification  Equipment heart dissipation, current-dependent Pvid Heart dissipation per pole, current-dependent Pvid Heart dissipation per pole, current-dependent Pvid Now Static heart dissipation, con-current-dependent Pvid Do Now Static heart dissipation, non-current-dependent Pvid Do Now Static heart dissipation of non-current-dependent Pvid Do Now Static heart dissipation of non-current-dependent Pvid Do Now Static heart dissipation, non-current-dependent Pvid Do Now Static heart dissipation of non-current-dependent Pvid Do Now Static heart dissipation of non-current-dependent Pvid Do Now Static heart dissipation, non-current-dependent Pvid Do Now Static heart dissipation of non-current-dependent Pvid Do Now Static heart dissipation of non-current-dependent Pvid Do Now Static heart dissipation of non-current-dependent Pvid Do Now Static heart dissipation, non-current-dependent Pvid Do Now Static heart dissipation of non-current-dependent Pvid Dos not apply, since the entire switchgear n		Damp heat, cyclic, to IEC 60068-2-30
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Actuator function  Actuator function  Actuator function  Contacts  Force for positive opening - min  Design verification  Equipment heat dissipation, current-dependent Pvid  Heat dissipation, current-dependent Pvid  Heat dissipation capacity Pdiss  Heat dissipation capacity Pdiss  Heat dissipation current for specified heat dissipation (IV)  State heat dissipation, non-current-dependent Pvid  OW  Rated operational current for specified heat dissipation (IV)  State heat dissipation non-current-dependent Pvis  OW  10.2.2 Corrosion resistance  Meets the product standard's requirements.  Meets the product standard's requirements.  Meets the product standard's requirements.  10.2.3.1 Verification of resistance of insulating materials to normal heat  10.2.2.3 Verification of resistance of insulating materials to normal heat  10.2.4 Resistance to ultra-violet (IV) radiation  10.2.5 Lifting  Does not apply, since the entire switchgaar needs to be evaluated.  Meets the product standard's requirements.  10.2.2 Incriptions  Meets the product standard's requirements.  Meets the product standard's requirements.  10.3.2 Resistance to ultra-violet (IV) radiation  Does not apply, since the entire switchgaar needs to be evaluated.  Meets the product standard's requirements.  10.3.2 Degree of protection of assemblies  Does not apply, since the entire switchgaar needs to be evaluated.  Meets the product standard's requirements.  10.3 Degree of protection of assemblies  Does not apply, since the entire switchgaar needs to be evaluated.  Meets the product standard's requirements.  10.3 Degree of protection of assemblies  Does not apply, since the entire switchgaar needs to be evaluated.  Meets the product standard's requirements.  10.4 Dearnones and creepage distances  Meets the product standard's requirements.  10.5 Protection against electric shock  Does not apply, since the entire switchgaar needs to be evaluated.  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  Is the p	Connection to SmartWire-DT	
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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 Power-frequency electric strength  10.9.3 Impulse withstand voltage  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.  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.  Is the panel builder's responsibility.  Is the panel builder's responsibility. The specifications for the switchgear must observed.  10.13 Mechanical function  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  10.2.5 Lifting  10.2.6 Mechanical impact  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 Please enquire  10.9 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  10.8 Connections for external conductors  10.9 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  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.  Does not apply, since the entire switchgear needs to be evaluated.  10.4 Clearances and creepage distances  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  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  Not applicable.  10.11 Short-circuit rating  Is the panel builder's responsibility. The specifications for the switchgear must observed.  10.12 Electromagnetic compatibility  Is the panel builder's responsibility. The specifications for the switchgear must 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.
10.26 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 Power-frequency electric strength  10.9.1 Tengen 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.  In the panel builder's responsibility.  The specifications for the switchgear must observed.  The device meets the requirements, provided the information in the instruction	10.2.4 Resistance to ultra-violet (UV) radiation	Please enquire
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 Power-frequency electric strength  10.9.1 Responsibility.  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.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  Is the panel builder's responsibility. The specifications for the switchgear must observed.  Is the panel builder's responsibility. The specifications for the switchgear must observed.	10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
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 Not applicable.  10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must observed.  10.12 Electromagnetic compatibility The specifications for the switchgear must observed.  10.13 Mechanical function The device meets the requirements, provided the information in the instruction	10.2.6 Mechanical impact	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  Not applicable.  10.11 Short-circuit rating  Is the panel builder's responsibility. The specifications for the switchgear must observed.  10.12 Electromagnetic compatibility  Is the panel builder's responsibility. The specifications for the switchgear must 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  10.15 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 The panel builder's responsibility.  13.19 Is the panel builder's responsibility.  14.10 Temperature rise  15.11 Short-circuit rating  16.12 Electromagnetic compatibility  17.15 Is the panel builder's responsibility. The specifications for the switchgear must observed.  17.18 Mechanical function  18.19 The device meets the requirements, provided the information in the instruction	10.3 Degree of protection of assemblies	117
10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  1 Is the panel builder's responsibility.  10.8 Connections for external conductors  1 Is the panel builder's responsibility.  10.9.2 Power-frequency electric strength  1 Is the panel builder's responsibility.  10.9.3 Impulse withstand voltage  1 Is the panel builder's responsibility.  10.9.4 Testing of enclosures made of insulating material  1 Is the panel builder's responsibility.  10.10 Temperature rise  10.11 Short-circuit rating  1 Is the panel builder's responsibility. The specifications for the switchgear must observed.  10.12 Electromagnetic compatibility  1 Is the panel builder's responsibility. The specifications for the switchgear must observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction		· · ·
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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 Is the panel builder's responsibility. The specifications for the switchgear must observed.  10.15 Mechanical function  10.16 The device meets the requirements, provided the information in the instruction		***************************************
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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 observed.  10.12 Electromagnetic compatibility  Is the panel builder's responsibility. The specifications for the switchgear must observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction		
10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Not applicable.  Is the panel builder's responsibility. The specifications for the switchgear must observed.  Is the panel builder's responsibility. The specifications for the switchgear must observed.  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 observed.  10.12 Electromagnetic compatibility  Is the panel builder's responsibility. The specifications for the switchgear must observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	·	
observed.  10.12 Electromagnetic compatibility  Is the panel builder's responsibility. The specifications for the switchgear must observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	·	
observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	· ·	
	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 push button (EC000221)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for push-button actuators (ecl@ss13-27-37-12-10 [AKF028019])

Colour button	White
Number of command positions	1

Construction type lens		Round
Hole diameter	mm	22.5
Width opening	mm	0
Height opening	mm	0
Type of button		Flat
Suitable for illumination		Yes
With protective cover		No
Labelled		No
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		IP67/IP69K
Degree of protection (NEMA), front side		4X