Joystick, with one operating point per operating direction, With plastic shaft, 2 positions, Bezel: titanium, momentary, Vertical



Part no. M22-WJ2V

289196

EL Number

4315310

(Norway)

(NOTWAY)	
General specifications	
Product name	Eaton Moeller® series M22 Joystick
Part no.	M22-WJ2V
EAN	4015082891961
Product Length/Depth	100 millimetre
Product height	30 millimetre
Product width	30 millimetre
Product weight	0.028 kilogram
Compliances	CE Marked
Certifications	CSA Std. C22.2 No. 94-91 CSA Std. C22.2 No. 14-05 IEC 60947-5 UL 508 EN 60947-5 VDE IEC/EN 60947-5 CSA CSA File No.: 012528 CSA-C22.2 No. 14-05 UL Category Control No.: NKCR CE CSA CIASS No.: 3211-03 IEC/EN 60947 CSA-C22.2 No. 94-91 UL File No.: E29184 UL VDE 0660
Product Tradename	M22
Product Type	Joystick
Product Sub Type	None
Features & Functions	
Bezel color	Titanium
Bezel material	Plastic
Fitted with:	Plastic shaft Filament bulb (24 V) Front ring Retraction in 0-position
General information	
Accessories	Plastic shaft
Degree of protection	IP66
	NEMA 4X, 13
Lifespan, mechanical	100,000 Operations
Opening diameter	22.5 mm
Operating frequency	2000 Operations/h
Туре	Joystick
Ambient conditions, mechanical	
Mounting position	As required
Shock resistance	Mechanical, According to IEC/EN 60068-2-27 30 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	70 °C
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Electrical rating	
Rated operational current (Ie) at AC-21, 400 V, 415 V	0 A

Equipment heat dissipation, current-dependent Pvid  Heat dissipation capacity Pdiss  OW  Rated operational current for specified heat dissipation (In)  Static heat dissipation, non-current-dependent Pvid  OW  Rated operational current for specified heat dissipation (In)  OA  Static heat dissipation, non-current-dependent Pvs  OW  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.  10.2.7 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  10.9.2 Power-frequency electric strength  10.9.3 Inpulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.10 Temperature rise  10.10 Temperature rise  10.11 Short-circuit rating	Communication	
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Meets the product standard's requirements.  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 Resting 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.  Does not apply, since the entire switchgear needs to be evaluated.  In Does not apply, since the entire switchgear needs to be evaluated.  In Streep and builder's responsibility.  In Streep and builder's responsibility.  In 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.	10.2.5 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.  10.9.4 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 b observed.  10.12 Electromagnetic compatibility  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  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.  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  Does not apply, since the entire switchgear needs to be evaluated.  10 sthe 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	10.3 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. The specifications for the switchgear must be observed.  10.12 Electromagnetic compatibility  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.
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  1 Is the panel builder's responsibility.  1 Is the panel builder's responsibility. The specifications for the switchgear must be observed.  1 Is the panel builder's responsibility. The specifications for the switchgear must be observed.  1 Is the panel builder's responsibility. The specifications for the switchgear must be observed.  1 Is the panel builder's responsibility. The specifications for the switchgear must be observed.  1 Is the panel builder's responsibility. The specifications for the switchgear must be observed.	10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  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  1 Is the panel builder's responsibility. The specifications for the switchgear must be observed.  10.13 Mechanical function  1 Is the panel builder's responsibility. The specifications for the switchgear must be observed.  10.14 Electromagnetic compatibility  1 Is the panel builder's responsibility. The specifications for the switchgear must be observed.  10.15 The device meets the requirements, provided the information in the instruction	10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
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. 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 b observed.  10.12 Electromagnetic compatibility  Is the panel builder's responsibility. The specifications for the switchgear must b 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  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 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	10.9.3 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 b observed.  10.12 Electromagnetic compatibility  Is the panel builder's responsibility. The specifications for the switchgear must b 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 b 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) / Control switch, Joystick (EC000632)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Control switch, joystick (ecl@ss13-27-37-14-04 [AKF061018])

Rated operation current le at AC-21, 400 V  Centre mounting, hole diameter  Joy stick length  Number of actuation directions  Number of switch positions  Number of normally open contacts per actuation direction  Number of normally closed contacts per actuation direction  Number of make-and-break contacts per direction  With retraction in 0-position  Uocking in 0-position  Coder  Analogue output signal configurable	[AKFU61U18])		
Joy stick length  Number of actuation directions  Number of switch positions  Number of normally open contacts per actuation direction  Number of normally closed contacts per actuation direction  Number of make-and-break contacts per direction  With retraction in 0-position  Locking in 0-position  Coder  mm 75  2  0  0  1  0  Viscourable of make-and-break contacts per actuation direction  Ves  No  No  No	Rated operation current le at AC-21, 400 V	Α	0
Number of actuation directions  2 Number of switch positions  1 Number of normally open contacts per actuation direction  0 Number of normally closed contacts per actuation direction  0 Number of make-and-break contacts per direction  0 With retraction in 0-position  Ves  Locking in 0-position  No  Coder	Centre mounting, hole diameter	mm	22.5
Number of switch positions  1 Number of normally open contacts per actuation direction  0 Number of normally closed contacts per actuation direction  0 Number of make-and-break contacts per direction  0 With retraction in 0-position  Ves  Locking in 0-position  No  Coder	Joy stick length	mm	75
Number of normally open contacts per actuation direction  Number of normally closed contacts per actuation direction  Number of make-and-break contacts per direction  With retraction in 0-position  Locking in 0-position  No  Coder	Number of actuation directions		2
Number of normally closed contacts per actuation direction  Number of make-and-break contacts per direction  With retraction in 0-position  Ves  Locking in 0-position  No  Coder  No	Number of switch positions		1
Number of make-and-break contacts per direction  With retraction in 0-position  Locking in 0-position  Coder  No  No	Number of normally open contacts per actuation direction		0
With retraction in 0-position Yes Locking in 0-position No Coder No	Number of normally closed contacts per actuation direction		0
Locking in 0-position No Coder No	Number of make-and-break contacts per direction		0
Coder No	With retraction in 0-position		Yes
	Locking in 0-position		No
Analogue output signal configurable No	Coder		No
	Analogue output signal configurable		No

With front ring	,	Yes
Material front ring	F	Plastic
Colour front ring	1	Titanium
Degree of protection (IP)	I	IP66
Degree of protection (NEMA)	4	4X, 13