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



Part no. M22-WJ2H

289195

EL Number

4315309

(Norway)

General specifications		
Product name	Eaton Moeller® series M22 Joystick	
Part no.	M22-WJ2H	
EAN	4015082891954	
Product Length/Depth	100 millimetre	
Product height	30 millimetre	
Product width	30 millimetre	
Product weight	0.028 kilogram	
Compliances	CE Marked	
Certifications	IEC 60947-5 UL 508 CSA Std. C22.2 No. 14-05 CSA Std. C22.2 No. 94-91 EN 60947-5 VDE CSA-C22.2 No. 94-91 CSA-C22.2 No. 14-05 VDE 0660 UL CSA Class No.: 3211-03 UL Category Control No.: NKCR IEC/EN 60947-5 IEC/EN 60947 CSA File No.: 012528 CE CSA UL File No.: E29184	
Product Tradename	M22	
Product Type	Joystick	
Product Sub Type	None	
Features & Functions		
Bezel color	Titanium	
Bezel material	Plastic	
Fitted with:	Plastic shaft Retraction in 0-position Filament bulb (24 V) Front ring	
General information		
Accessories	Plastic shaft	
Degree of protection	IP66	
Lifector machanical	NEMA 4X, 13	
Lifespan, mechanical	100,000 Operations	
Opening diameter	22.5 mm	
Operating frequency	2000 Operations/h	
Type Ambient conditions, mechanical	Joystick	
Ambient conditions, mechanical		
Mounting position	As required	
Shock resistance	30 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 Mechanical, According to IEC/EN 60068-2-27	ms
Climatic environmental conditions		
Ambient operating temperature - min	-25 °C	
Ambient operating temperature - max	70 °C	
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30	
Electrical rating		
Rated operational current (le) 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 for specified heat dissipation (In) OW 10.22 Corrosion resistance OW 10.23 I Verification of thermal stability of enclosures OW 10.23 I Verification of thermal stability of enclosures OW 10.24 Resistance of insulating materials to normal heat 10.23.1 Verification of resistance of insulating materials to normal heat 10.24 Resistance to ultra-violet (UV) radiation 10.25 Lifting Obes not apply, since the entire switchgear needs to be evaluated. 10.27 Inscriptions Obes not apply, since the entire switchgear needs to be evaluated. 10.3 Portection against electric shock Obes not apply, since the entire switchgear needs to be evaluated. 10.4 Clearances and creepage distances Meets the product standard's requirements. Obes not apply, since the entire switchgear needs to be evaluated. 10.5 Protection against electric shock Obes not apply, since the entire switchgear needs to be evaluated. 10.6 Incorporation of switching devices and components Obes 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 Power-frequency electric strength Is the panel builder's responsibility. 10.9.1 Power-frequency electric strength Is the panel builder's responsibility. 10.9.2 Insure and builder's responsibility. 10.9.3 Inputs withstand voltage Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating	Communication	
Actuating force Actuation function Actuation function Number of actuation directions Contacts Force for positive opening - min Design verification Equipment heat dissipation, current-dependent Pvid Heat dissipation capacity Pdiss OW Heat dissipation per polic, current-dependent Pvid Nover the dissipation per polic, current-dependent Pvid Heat dissipation neapority Pdiss OW Heat dissipation per polic, current-dependent Pvid OW Static heat dissipation, one-current-dependent Pvid OW 10.2 Corrosion resistance OW 10.2.2 Corrosion resistance Meets the product standard's requirements. 10.2.3.1 Verification of resistance of insulating materials to normal heat 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.2 Serification of resistance of insulating materials to normal heat 10.2.3.3 Resist of insul. mat. to abnormal heat/fire by internal elact. effects 10.2.4 Resistance to ultra-violet (UV) radiation Does not apply, since the entire switchgear needs to be evaluated. 10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 10.2.1 Descriptions Meets the product standard's requirements. 10.2.4 Descriptions Meets the product standard's requirements. 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 Clarances and reveapoe 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 Temperature in a contraction of assemblies 10.7 Internal electrical circuits and connections 10.8 Internal electrical circuits and connections 10.9 Internal elect	Connection to SmartWire-DT	
Actuator function Number of actuation directions Contacts Force for positive opening - min Design verification Equipment heat dissipation, current-dependent Pvid And dissipation per pole, current-dependent Pvid And dissipation per pole, current-dependent Pvid And dissipation per pole, current-dependent Pvid And deperational current for specified heat dissipation (In) Static heat dissipation, non-current-dependent Pvid And dispation in resistance Meets the product standard's requirements. 10.2.3.1 Verification of fremal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Verification of resistance to ultra-violet (IUV) radiation 10.2.4 Resistance to ultra-violet (IUV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions Meets the product standard's requirements. 10.2.8 Does not apply, since the entire switchgear needs to be evaluated. 10.9 Open of protection of assemblies 10.9 Open of protection of assemblies 10.4 Clearances and creepage distances Meets the product standard's requirements. 10.8 Protection against olectric shock 10.9 Protection against olectric shock 10.9 Protection of switching devices and components 10.1 Clearances and creepage distances Meets the product standard's requirements. 10.8 Protection against olectric shock 10.9 Protection of switching devices and components 10.1 Tenernal electric altricuits and connections 10.2 Protection against olectric shock 10.3 Inscriptions 10.4 Tenernal electric altricuits and connections 10.5 Protection of one withstand voltage 10.6 Connections for oxtornal conductors 10.9 Protection against olectric shock 10.1 Tenernal electric altricuits and connections 10.1 Tenernal electric altricuits and connections 10.2 T	Actuator	
Number of actuation directions Contacts Force for positive opaning - min Design verification Equipment heat dissipation, current-dependent Pvid Heat dissipation, capacity Pfets Heat dissipation per pole, current-dependent Pvid Heat dissipation, concurrent-dependent Pvid Heat dissipation, concurrent-dependent Pvid Rated operational current for specified heat dissipation (in) Static heat dissipation, non-current-dependent Pvid 10.2.2 Corrosion resistance 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 materials to normal heat 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 10.2.5 Mechanical impact 10.2.5 Degree of protection of assemblies 10.3.0 Egree of protection of sessemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Recorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Recorporation of switching devices and components 10.9 Treterial against electric shock 10.9 Recorporation of switching devices and components 10.9 Treterial against electric shock 10.9 Recorporation of switching devices and components 10.9 Treterial electrical circuits and connections 10.9 Recorporation of switching devices and components 10.9 Treterial electrical circuits and connections 10.9 Insulation of switching devices and components 10.9 Treterial electrical circuits and connections 10.9 Insulation of switching devices and connections 10.9 Insulation	Actuating force	5 N
Contacts Force for positive opening - min Design verification Equipment heat dissipation, current-dependent Pvid Neat dissipation, or pole, current-dependent Pvid Reted operational current for specified heat dissipation (In) Static heat dissipation, non-current-dependent Pvs Now Rated operational current for specified heat dissipation (In) Static heat dissipation, non-current-dependent Pvs Now Neets the product standard's requirements. Noes the product standard's requirements. Noes not apply, since the entire switchgear needs to be evaluated. Noes not apply, since the entire switchgear needs to be evaluated. Noes not apply, since the entire switchgear needs to be evaluated. Noes not apply, since the entire switchgear needs to be evaluated. Noes not apply, since the entire switchgear needs to be evaluated. Noes not apply, since the entire switchgear needs to be evaluated. Noes not apply, since the entire switchgear needs to be evaluated. Noes not apply, since the entire switchgear needs to be evaluated. Noes not apply, since the entire switchgear needs to be evaluated. Noes not apply, since the entire switchgear needs to be evaluated. Noes not apply, since the entire switchgear needs to be evaluated. Noes not apply, since the entire switchgear needs to be evaluated. Noes not apply, since the entire switchgear needs to be evaluated. Noes not apply, since the entire switchgear needs to be evaluated. Noes not apply, since the entire switchgear needs to be evaluated. Noes not apply, since the entire switchgear needs to be evaluated. Noes not apply, since the entire switchgear needs to be evaluated. Noes not apply, since the entire switchgear needs to be evaluated. Noes not apply, since the entire switchgear needs to be evaluated. Noes not apply, since the entire switchgear needs to be evaluated. Noes not apply, since the entire switchgear needs to be eval	Actuator function	
Perce for positive opening - min Design verification Equipment heat dissipation, current-dependent Pvid Heat dissipation capacity Priss OW Heat dissipation capacity Priss OW Rated operational current for specified heat dissipation (In) Static heat dissipation, ren-current-dependent Pvid OW 10.22 Corrosion resistance 10.23.1 Varification of thermal stability of enclosures Meets the product standard's requirements. 10.23.2 Verification of thermal stability of enclosures Meets the product standard's requirements. 10.23.3 Verification of thermal stability of enclosures Meets the product standard's requirements. 10.23.8 Verification of thermal stability of enclosures Meets the product standard's requirements. 10.24. Resistance to ultra-violet (IVI) radiation 10.25 Lifting Does not apply, since the entire switchgear needs to be evaluated. 10.27. Inscriptions Meets the product standard's requirements. 10.3 Degree of protaction of assemblies 10.4 Cloarances and creepage distances Meets the product standard's requirements. 10.5 Protaction against electric shock Does not apply, since the entire switchgear needs to be evaluated. 10.6 Incorporation of switching devices and components 10.8 Connections for external conductors 10.9 Protection against electric stock Does not apply, since the entire switchgear needs to be evaluated. 10.6 Incorporation of switching devices and components 10.9 Connections for external conductors 10.9 Connections for external conductors 10.9 Incorporation of switching devices and components 10.9 Connections for external conductors 10.9 Incorporation of switching devices and connections 10.9 Incorporation of switching devices and connections 10.1 Temperature rise Not applicable. 10.1 Short-circuit rating 10.1 Short-ci	Number of actuation directions	2
Design verification Equipment heat dissipation, current-dependent Pvid 0W Heat dissipation capacity Pdiss 0W Rated operational current for specified heat dissipation (In) Static heat dissipation, non-current-dependent Pvid 0W Rated operational current for specified heat dissipation (In) 10.22 Corrosion resistance 10.23.1 Verification of resistance 0Meats the product standard's requirements. 10.23.2 Verification of resistance of insulating materials to normal heat 10.23.3 Resist of insul. mat. to abnormal heat/fire by internal elect. offects 10.24.8 estatance to ultra-violet (UV) radiation 10.24. Resistance to ultra-violet (UV) radiation 10.25. Lifting 10.25 Lifting 10.26 Mechanical impact 10.26 Mechanical impact 10.27. Mechanical impact 10.28 per of protection of assemblies 10.3 Degree of protection of assemblies 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.5 Incorporation of switching devices and components 10.5 Incorp	Contacts	
Equipment heat dissipation, current-dependent Pvid Heat dissipation capacity Pdiss OW Heat dissipation per pole, current-dependent Pvid Rated operational current for specified heat dissipation (In) Static heat dissipation, non-current-dependent Pvs OW 10.22 Corrosion resistance Meets the product standard's requirements. 10.23.1 Verification of thermal stability of enclosures Meets the product standard's requirements. 10.23.2 Verification of resistance of insulating materials to normal heat Meets the product standard's requirements. 10.23.3 Resist. of insul. mat. to abnormal heat/line by internal elect. effects Meets the product standard's requirements. 10.24. Resistance to ultra-violet (UV) radiation Please enquire Does not apply, since the entire switchgear needs to be evaluated. 10.25 Mechanical impact Does not apply, since the entire switchgear needs to be evaluated. 10.27 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 Thermal electrical circuits and connections In the panel builder's responsibility. 10.9 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 Lis 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	Force for positive opening - min	0 N
Heat dissipation capacity Pdiss Heat dissipation proofe, current-dependent Pvid Rated operational current for specified heat dissipation (In) Static heat dissipation, non-current-dependent Pvs OW 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 Does not apply, since the entire switchgear needs to be evaluated. 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. 10.4 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. 10.4 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 10.10 Temperature rise Not applicable. 10.11 Short-circuit rating La 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	Design verification	
Heat dissipation per pole, current-dependent Pvid Rated operational current for specified heat dissipation (In) Static heat dissipation, non-current-dependent Pvs 0 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 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. 10.3 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. The specifications for the switchgear must be observed. 10.11 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	Equipment heat dissipation, current-dependent Pvid	0 W
Rated operational current for specified heat dissipation (In) Static heat dissipation, non-current-dependent Pvs 0 W 10.2.2 Corrosion resistance Meets the product standard's requirements. 102.3.1 Verification of thermal stability of enclosures Meets the product standard's requirements. 102.3.2 Verification of resistance of insulating materials to normal heat Meets the product standard's requirements. 102.3.3 Resist of insul, mat, to abnormal heat/fire by internal elect, effects Meets the product standard's requirements. 102.3.3 Resist of insul, mat, to abnormal heat/fire by internal elect, effects Meets the product standard's requirements. 102.4 Resistance to ultra-violet (UV) radiation 102.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 102.7 Inscriptions Meets the product standard's requirements. 103.0 Degree of protection of assemblies Does not apply, since the entire switchgear needs to be evaluated. 104.4 Clearances and creepage distances Meets the product standard's requirements. 105.4 Protection against electric shock Does not apply, since the entire switchgear needs to be evaluated. 106. Incorporation of switching devices and components Does not apply, since the entire switchgear needs to be evaluated. 107. Internal electrical circuits and connections Is the panel builder's responsibility. 108. Connections for external conductors Is the panel builder's responsibility. 109.9 Power-frequency electric strength Is the panel builder's responsibility. 109.9 Testing of enclosures made of insulating material Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.11 Short-circuit rating 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	Heat dissipation capacity Pdiss	0 W
Static heat dissipation, non-current-dependent Pvs 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of thermal stability of enclosures 10.2.3.2 Resistance of insulating materials to normal heat 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 10.3.1 Degree of protection of assemblies 10.4 Clearances and creepage distances 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 10.13 Mechanical function 10.13 Mechanical function	Heat dissipation per pole, current-dependent Pvid	0 W
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 10.2.3.3 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 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.1 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating Meets the product standard's requirements. Meets the product standard's requirements. 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. 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	Rated operational current for specified heat dissipation (In)	0 A
10.2.3.1 Verification of thermal stability of enclosures 10.2.3 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 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3.0 Begree 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 10.9.4 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. Meets the product standard's requirements. 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. 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	Static heat dissipation, non-current-dependent Pvs	0 W
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 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of assemblies 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 10.13 Mechanical function 10.13 Mechanical function 10.13 Mechanical function 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. In the panel builder's responsibility. The specifications for the switchgear must build between the requirements, provided the information in the instruction. In the device meets the requirements, provided the information in the instruction.	10.2.2 Corrosion resistance	Meets the product standard's requirements.
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 10.3.0 Does not apply, since the entire switchgear needs to be evaluated. 10.3.1 Does not apply, since the entire switchgear needs to be evaluated. 10.4.1 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. 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 re	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 10.2.7 Inscriptions 10.2.7 Inscriptions 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 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 10.9.4 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 Electromagnetic compatibility 10.15 Internal elevatical circuits and connections 10.16 Incorporation of switching devices and components 10.17 Internal elevatical circuits and connections 10.18 Legenal builder's responsibility. 10.19 Power-frequency electric strength 10.19 Internal elevatical circuits and connections 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Electromagnetic compatibility 10.15 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. 10.3 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 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 10.9.4 Testing of enclosures made of insulating material 10.9.4 Testing of enclosures made of insulating material 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 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. Internal electrical circuits and connections Is the panel builder's responsibility. Internal electrical circuits and connections Is the panel builder's responsibility. Internal electrical circuits and connections Is the panel builder's responsibility. Internal electrical circuits and connections Is the panel builder's responsibility. Internal electrical circuits and connections Is the panel builder's responsibility. Internal electrical circuits and connections Is the panel builder's responsibility. The specifications for the switchgear must be observed. Internal electrical circuits and connections Internal electrical circuits and connections Internal electrical circuits and connections Is the panel builder's responsibility. In 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 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. Is the panel builder's responsibility. 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 be observed. 10.12 Electromagnetic compatibility 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 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. Is the panel builder's responsibility. 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. 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 10.15 Is the panel builder's responsibility. 10.16 Is the panel builder's responsibility. 10.17 Is the panel builder's responsibility. 10.18 Is the panel builder's responsibility. 10.19 Is the panel builder's responsibility. 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 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	10.5 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 10.10 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. 10.13 Mechanical function 1 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.14 Mechanical function 1 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.15 Mechanical function 1 In 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 10.13 Mechanical function Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.14 Short-circuit rating 15 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	10.8 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 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 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) / 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])

A mm	0 22.5
	22.5
mm	75
	2
	1
	0
	0
	0
	Yes
	No
	No
	No

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