Key-operated actuator, momentary, 3 positions, Key withdrawable: 0, Bezel: black



Part no. M22S-WS3 216895

Product name	Eaton Moeller® series M22 Key-operated actuator
Part no.	M22S-WS3
EAN	4015082168957
Product Length/Depth	70 millimetre
Product height	30 millimetre
Product width	30 millimetre
Product weight	0.034 kilogram
Compliances	CE Marked Bureau Veritas GoST-R
Certifications	CCC Marked CSA Certified Lloyd's Register Certified UL File No.: E29184 VDE 0660 CSA File No.: 012528 CSA-C22.2 No. 94-91 CE CSA UL CSA-C22.2 No. 14-05 CSA Class No.: 3211-03 IEC/EN 60947 UL 508 UL Category Control No.: NKCR IEC/EN 60947-5 GL DNV LR
Product Tradename	M22
Product Type	Key-operated actuator
Product Sub Type	None
Catalog Notes	Key withdraw convertible with coding adapters M22-XC Not suitable for master key systems
eatures & Functions	
Bezel color	Black
Bezel material	Plastic
Design	Key operated
	Classical
Fitted with:	Front ring Plunger bridge for the middle contact
Functions	Stay-put/spring-return function, can be changed with coding parts M22-XC-Y
Key code	MS1
eneral information	
Accessories	1 key included with supplied equipment.
Degree of protection	NEMA 4X, 13
Degree of protection (front side)	IP66
Lifespan, mechanical	100,000 Operations
Opening diameter	22.5 mm
Operating frequency	100 Operations/h
Operating torque	0.5 N·m
Product category	RMQ-Titan
Size	Front diameter: 29.7 mm
Switching angle	40 °
Type	Key-operated button
.16.	noy operated batton

Ambient operating temperature - min Ambient operating temperature - max 70 °C Climatic proofing Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 Communication Connection to SmartWire-DT With SWD-RMQ connections Yes Actuator Actuator color Actuator function Actuator function Actuator function Actuator spring-return Key withdrawable in position 0 Momentary, Momentary Actuator type Number of switch positions 3		
Same	Mounting position	As required
Ambient operating temperature - min Ambient operating temperature - max Cimural coparting temperature - max Cimural coparting temperature - max Cimural coparting temperature - max Cimural continued Communication Actuator function Actuator function Actuator function Actuator function Communication Communicatio	Shock resistance	
Ambient operating temperature - max Climatic prorting Communication Contection to SmartWine-DT Actuator Contection to SmartWine-DT Actuator color Actuator color Actuator color Actuator yes	Climatic environmental conditions	
Communication Actuator Actuator Actuator variable of the Communication Actuator function Actuator function Actuator byte Exp Momentary, return from lethrogist, key removable center Spring-return Key withdrawable in position 0 Actuator byte Exp Number of switch positions 3 Contracts Torce for positive opening - min Design verification Equipment heat dissipation, current-dependent Pvid Actuator byte Heat dissipation capacity Pdiss Heat dissipation capacity Pdiss Heat dissipation open poils, current-dependent Pvid Actuator in the position per poils of exclusion of including materials to normal heat the position of the real stability of exclusions of including materials to normal heat the position of including materials to normal heat 10.2.3 Nesition of including materials to normal heat 10.2.5 Urfing Does not apply, since the entire switchpara needs to be evaluated. 10.5 Incorporation of assemblies 10.6 Incorporati	Ambient operating temperature - min	-25 °C
Communication Connection to SmartWire-DT Actuator Actuator function Actuator type Actuator type Actuator type Actuator type Actuator type Key Momentary, return from lettright, key removable center Synong-return Key withchrowable in pastion 0 Momentary Actuator type Key Key Key Key Key Key Key	Ambient operating temperature - max	70 °C
Actuator color Actuator function Actuator functi	Climatic proofing	
Actuator color Actuator function Actuator function Actuator function Actuator function Actuator function Actuator function Actuator type Actuator type Actuator type Many Many Many Many Many Many Many Man	Communication	
Actuator color Actuator function Simple return Key withdrawable in position D Momentary Number of switch positions Solutacts Force for positive opening - min Design verification Equipment head dissipation, current-dependent Pvid Head dissipation capacity Pfalss OW Head dissipation capacity Pfalss OW Head dissipation capacity Pfalss OW Head dissipation per pole, current-dependent Pvid OW Head dissipation per pole, current-dependent Pvid OW Head dissipation per pole, current-dependent Pvid OW Head dissipation non-current dependent Pvid Head dissipation on resistance OW Head dissipation on non-current dependent Pvid OW Head dissipation on non-current dependent Pvid OW Head dissipation on non-current dependent Pvid OW 102.2 Corrosion resistance Meets the product standard's requirements. Weets the product standard's requirements. Usual Subscience of financial materials to normal heat Ow 102.3 Nesista of insistance of insulating materials to normal heat Ows on the public standard's requirements. Ows on the public standard is requirements. Usual Subscience of insulating materials to normal heat Ows on the public standard's requirements. 102.4 Resistance to ultra-violet (UVI rediation Obean on apply, since the entire switchgear needs to be evaluated. 102.5 Incorptions Meets the product standard's requirements. 102.6 Mechanical impact Obean on apply, since the entire switchgear needs to be evaluated. 102.6 Incorporation of switching devices and components Obean on apply, since the entire switchgear needs to be evaluated. 102.6 Incorporation of switching devices and components Obean on apply, since the entire switchgear needs to be evaluated. 102.6 Incorporation of switching devices and components Obean on apply, since the entire switchgear needs to be evaluated. 102.6 Incorporation of switching devices and components Obean on apply, since the entire switchgear needs to be evaluated. 102.7 Incording enternal conductors Obean on apply, since the entire switchgear needs to be evaluated. 102.8 Connections for ext	Connection to SmartWire-DT	
Actuator function Actuator type Actuator type Actuator type Momentary Momentary Key Number of switch positions Contacts Force for positive opening - min Design verification Equipment heat dissipation, current-dependent Pvid Heat dissipation capacity Pdiss Heat dissipation capacity Pdiss Heat dissipation or apacity Pdiss Heat dissipation, non-current-dependent Pvid DW Static heat dissipation of thermal stability of enclosures Meets the product standard's requirements. 102.3.1 Verification of thermal stability of enclosures 102.3.2 Verification of thermal stability of enclosures 102.3.3 Resist, of insul. mat. to abnormal heat/fire by internal elect. effects 102.4.3.3 Resist, or insul. mat. to abnormal heat/fire by internal elect. effects 102.4.3.4 Verification or desistance of insulating materials to normal heat 102.5.4 Michanical impact 102.6. Michanical impact 102.6. Michanical impact 102.7 Inscriptions Moes not apply, since the entire switchgear needs to be evaluated. 102.7 Inscriptions Moes not apply, since the entire switchgear needs to be evaluated. 103.7 Internal electrical circuits and connections 105.8 Protection against electric shock 106.8 Incorporation of swerthing devices and components 107.7 Internal electrical circuits and connections 108.7 Internal electrical circuits and connections 109.8 Tonections of oxerimal conductors 109.9 Tone or protection of assemblies 109.9 Tone or protection of assemblie	Actuator	
Actuator type Actuator type Number of switch positions Contacts Furre for positive opening - min Design verification Equipment heat dissipation, current-dependent Pvid Heat dissipation capacity Pdiss Heat dissipation capacity Pdiss Heat dissipation per polic, current-dependent Pvid Heat dissipation non-current for specified heat dissipation (le) Statis heat dissipation, non-current-dependent Pvid Heat dissipation on-current for specified heat dissipation (le) 10.2.1 Verification of themal stability of enclosures Heat dissipation on-current-dependent Pvid Heat dissipation in disciplination of themal stability of enclosures Heat dispation of themal stability of enclosures Heat dispation of themal stability of enclosures Heat the product standard's requirements. Heat sets the product standard's requirements. Heat sets the product standard's requirements. Heat the product	Actuator color	Black
Number of switch positions Section Secti	Actuator function	Spring-return Key withdrawable in position 0
Contacts Force for positive opening - min Design verification Equipment heat dissipation, current-dependent Pvid OW Heat dissipation par pole, current-dependent Pvid OW Rated operational current for specified heat dissipation (In) Static heat dissipation, any one-current-dependent Pvid 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) Static heat dissipation, non-current-dependent Pvid OW Rated operational current for specified heat dissipation (In) Static heat dissipation, non-current-dependent Pvid OW Meets the product standard's requirements. 10.2.3.1 Verification of resistance of insulating materials to normal heat 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. 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. 10.2.6 Mechanical impact Does not apply, since the entire switchgear needs to be evaluated. 10.2.7 Inscriptions Meets the product standard's requirements. 10.3 Degree of protection of assemblies Does not apply, since the entire switchgear needs to be evaluated. 10.4 Clearances and croepage distances Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. 10.5 Incorporation of switching devices and components Does not apply, since the entire switchgear needs to be evaluated. 10.6 Incorporation of switching devices and components Is the panel builder's responsibility. 10.9.2 Timeral electric circuits and connections Is the panel builder's responsibility. 10.9.3 Timeral electric circuit sandard of insulating material 10.1 Timeral electric circuit sandard of insulating material 10.2 Timeral electric compability. 10.3 Timeral elec	Actuator type	Key
Force for positive opening - min Design verification Equipment heat dissipation, current-dependent Pvid Heat dissipation per pole, current-dependent Pvid Bated operational current for specified heat dissipation (In) Static heat dissipation, non-current-dependent Pvid Asted operational current for specified heat dissipation (In) Static heat dissipation, non-current-dependent Pvs 10.2.2 Corrosion resistance 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 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Verification of thermal stability of enclosures Meets the product standard's requirements. 10.2.3.2 Verification of testistance of ultra-violet (UV) radiation 10.2.3 Resistance to ultra-violet (UV) radiation 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 Inscriptions Meets the product standard's requirements. 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 10.7 Internal electrical circuits and connections 10.8 Incorporation of switching devices and components 10.9 Power-frequency electric strength 10.9 Power-frequency electric strength 10.9 Power-frequency electric strength 10.9 Internal electrical circuits and connections 11 Internal electrical circuits and connections 12 Internal electrical circuits and connections 13 Internal electrical circuits and connections 14 the panel builder's responsibility. 15 the panel builder's responsibilit	Number of switch positions	3
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, per pole, current-dependent Pvid 0W Rated operational current for specified heat dissipation (In) 10.2.2 Corrosion resistance 0Wests 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 tresistance of insulating materials to normal heat Meets the product standard's requirements. 10.2.3.3 Resist of insul. ant. 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 Urting 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. 10.8 Connections for external conductors Is the panel builder's responsibility. 10.9.2 Power-frequency electric strength Is the panel builder's responsibility. 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise Notating material 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	Contacts	
Equipment heat dissipation, current-dependent Pvid Heat dissipation capacity Pdiss OW Rated operational current for specified heat dissipation (In) Static heat dissipation per pole, current-dependent Pvid Authority of the dissipation per pole, current-dependent Pvid OW Static heat dissipation, non-current-dependent Pvs OW OW Static heat dissipation, non-current-dependent Pvs OW Meets the product standard's requirements. 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. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. In Justic product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. In Justic product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. In Justic product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. In Justic product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. In Justic product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. In J	Force for positive opening - min	0 N
Heat dissipation capacity Pdiss Heat dissipation per pole, current-dependent Pvid Rated operational current for specified heat dissipation (In) Static heat dissipation, non-current-dependent Pvs 0 W 10.22 Corrosion resistance Meets the product standard's requirements. 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 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 Does not apply, since the entire switchgaer needs to be evaluated. 10.2.6 Machanical impact 10.2.7 Inscriptions 10.8 Degree of protection of assemblies Does not apply, since the entire switchgaer 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 switchgaer 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 Internal electrical circuits and connections 10.9 Power-frequency electric strength 10.9 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	Design verification	
Heat dissipation per pole, current-dependent Pvid Reted operational current for specified heat dissipation (In) Static heat dissipation, non-current-dependent Pvs 0 W 10.22 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 Verification of resistance of insulating materials to normal heat 10.2.3.3 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 Does not apply, since the entire switchgear needs to be evaluated. 10.2.6 Mechanical impact Does not apply, since the entire switchgear needs to be evaluated. 10.2.7 Inscriptions Meets the product standard's requirements. 10.3 Degree of protection of assemblies Does not apply, since the entire switchgear needs to be evaluated. 10.4 Clearances and creepage distances Meets the product standard's requirements. 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. 10.11 Short-circuit rating Is the panel builder's responsibility. Not applicable. 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	Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation per pole, current-dependent Pvid Reted operational current for specified heat dissipation (In) Static heat dissipation, non-current-dependent Pvs 0 W 10.22 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 Verification of resistance of insulating materials to normal heat 10.2.3.3 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 Does not apply, since the entire switchgear needs to be evaluated. 10.2.6 Mechanical impact Does not apply, since the entire switchgear needs to be evaluated. 10.2.7 Inscriptions Meets the product standard's requirements. 10.3 Degree of protection of assemblies Does not apply, since the entire switchgear needs to be evaluated. 10.4 Clearances and creepage distances Meets the product standard's requirements. 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. 10.11 Short-circuit rating Is the panel builder's responsibility. Not applicable. 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
Rated operational current for specified heat dissipation (In) Static heat dissipation, non-current-dependent Pvs 0 W 10.22 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 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 10.2.6 Mechanical impact 10.2.7 Inscriptions Meets the product standard's requirements. 10.3 Degree of protection of assemblies Does not apply, since the entire switchgear needs to be evaluated. 10.4 Clearances and creepage distances Meets the product standard's requirements. 10.5 Protection against electric shock Does not apply, since the entire switchgear needs to be evaluated. 10.6 Incorporation of switching devices and components Does not apply, since the entire switchgear needs to be evaluated. 10.7 Internal electrical circuits and connections Is the panel builder's responsibility. 10.9.2 Power-frequency electric strength Is the panel builder's responsibility. 10.9.3 Impulse withstand voltage Is the panel builder's responsibility. 10.9.1 Strengerature rise 10.11 Short-circuit rating Is the panel builder's responsibility. 10.15 Lectromagnetic compatibility 10.15 Lectromagnetic compatibility 10.15 Lectromagnetic compatibility 10.16 Lectromagnetic compatibility 10.17 Meetanical function The device meets the requirements, provided the information in the instruction		0 W
Static heat dissipation, non-current-dependent Pys 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 10.2.3.3 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 10.4 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 10.9 Power-frequency electric strength 10.9 Power-frequency electric strength 10.9 Is the panel builder's responsibility. 10.9 Is the panel builder's responsibility. 10.9 Is the panel builder's responsibility. 10.9 Interperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.13 Mechanical function 10.14 Mechanical function 10.15 Mechanical function 10.16 Incorporation of switching devices and components 10.17 Internal electrical circuits and connections 10.18 the panel builder's responsibility. 10.19 Electromagnetic compatibility 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Mechanical function 10.15 Mechanical function 10.16 Menery descriptions for the switchgear must be observed. 10.11 Short-circuit requirements. 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Mechanical function 10.15 Mechanical function 10.16 Menery descriptions for the switchgear must be observed. 10.17 Mechanical function 10.18 Menery descriptions for the switchgear must be observed. 10.19 Menery descriptions for the switchgear must be observed. 10.19 Menery descriptions for the switchgear must be observed. 10.19 Menery descriptions for the switchgear must be observed.	Rated operational current for specified heat dissipation (In)	0 A
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 ower-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 Mechanical function 10.15 Interpal elucider's responsibility. The specifications for the switchgear must be observed. 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Mechanical function 10.15 Temperature enter the responsibility. The specifications for the switchgear must be observed. 10.16 Interpal elucider's responsibility. The specifications for the switchgear must be observed. 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Mechanical function 10.15 Temperature enter the requirements, provided the information in the instruction		0 W
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 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of assemblies 10.4 Dearances 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 Ower-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 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.	10.2.2 Corrosion resistance	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 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 10.3 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 10.9.1 Descriptions 10.9 Power-frequency electric strength 10.9 Is the panel builder's responsibility. 10.9.1 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 Meets the product standard's requirements. 10.2 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 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.13 Mechanical function 10.14 Mechanical function 10.15 Mechanical function	10.2.3.1 Verification of thermal stability of enclosures	
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.10 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. It is the panel builder's responsibility. It is the panel builder's responsibility. The specifications for the switchgear must be observed. In the device meets the requirements, provided the information in the instruction.		
10.2.4 Resistance to ultra-violet (UV) radiation Please enquire Does not apply, since the entire switchgear needs to be evaluated. 10.2.6 Mechanical impact Does not apply, since the entire switchgear needs to be evaluated. 10.2.7 Inscriptions Meets the product standard's requirements. 10.3 Degree of protection of assemblies Does not apply, since the entire switchgear needs to be evaluated. 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 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	·	
10.2.5 Lifting 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 Power-frequency electric strength 10.9.1 Sthe panel builder's responsibility. 10.9.3 Impulse withstand voltage 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 10.10 Tem paging and connections for the switchgear must be observed. 10.10 Temperature inse 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Event in the instruction in the instruc	,	
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 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. 10.10 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 10.13 Mechanical function The device meets the requirements, provided the information in the instruction		· · ·
10.2.7 Inscriptions 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 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. Is the panel builder's responsibility. In the panel builder's responsibility. In the panel builder's responsibility. The specifications for the switchgear must be observed. In the panel builder's responsibility. The specifications for the switchgear must be observed.	•	11.1
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. 10.10 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 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	·	· · ·
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 Meets the product standard's requirements. 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.	· ·	·
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 Does not apply, since the entire switchgear needs to be evaluated. 10 she entire switchgear needs to be evaluated. 10 sthe panel builder's responsibility. 11 sthe panel builder's responsibility. 12 sthe panel builder's responsibility. 13 sthe panel builder's responsibility. 14 sthe panel builder's responsibility. 15 sthe panel builder's responsibility. 16 sthe panel builder's responsibility. The specifications for the switchgear must be observed. 16 sthe panel builder's responsibility. The specifications for the switchgear must be observed. 17 sthe panel builder's responsibility. The specifications for the switchgear must be observed. 18 sthe panel builder's responsibility. The specifications for the switchgear must be observed. 19 sthe panel builder's responsibility. The specifications for the switchgear must be observed. 10 sthe panel builder's responsibility. The specifications for the switchgear must be observed.	• •	
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		
10.7 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 Is the panel builder's responsibility. 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. The specifications for the switchgear must be observed. 10.19 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.19 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.19 Is the panel builder's responsibility. The specifications for the switchgear must be observed.	•	
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 Steppanel builder's responsibility. 10.15 the panel builder's responsibility. 10.16 Is the panel builder's responsibility. 10.17 Steppanel builder's responsibility. The specifications for the switchgear must be observed. 10.19 The device meets the requirements, provided the information in the instruction	· · · · · · · · · · · · · · · · · · ·	· · ·
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 Strength builder's responsibility. 15 the panel builder's responsibility. The specifications for the switchgear must be observed. 10.15 the panel builder's responsibility. The specifications for the switchgear must be observed. 10.16 Temperature rise 10.17 Short-circuit rating 10.18 The device meets the requirements, provided the information in the instruction		
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		
10.9.4 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		
10.10 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	·	
10.11 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		
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		
observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	·	observed.
	IU.12 Electromagnetic compatibility	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])

Number of switch positions	3	
Type of control element	Key	

Suitable for illumination		No
Colour control element		Black
Colour indicator light cap		Other
Construction type lens		Round
Hole diameter	mm	22.5
Width opening	mm	0
Height opening	mm	0
Switching function latching		No
Spring-return		Yes
With front ring		Yes
Material front ring		Plastic
Colour front ring		Black
Degree of protection (IP), front side		IP66
Degree of protection (NEMA)		4X, 13