## **DATASHEET - M22S-WS**

Key-operated actuator, momentary, 2 positions, Key withdrawable: 0, Bezel: black



Part no. M22S-WS 216882

Bezel color Back   Bezel material Plastic   Color Image: Color   Design Image: Color   Fitted with: Fitted with:   Functions Image: Color	General specifications	
Fvaluet isopht@ph   6000000000000000000000000000000000000		Eaton Moeller® series M22 Key-operated actuator
Product Langh/Daph   Naminature     Product training   Sin millimetre	Part no.	M22S-WS
Product widthBit Inlinet:Product width30 milimet:Doubur wight30 milimet:ComplianceE-Marka diagramComplianceE-Marka diagramComplianceE-Marka diagramComplianceE-CompraComplianceE-CompraComplianceE-CompraComplianceE-CompraComplianceE-CompraComplianceE-CompraComplianceE-CompraComplianceE-CompraComplianceE-CompraComplianceE-CompraComplianceE-CompraComplianceMarkan diagramFootuct ToulenceMarkan dia	EAN	4015082168827
Product weight   Bit and linetice     Complexers   D034 kiogram     Cartifications   U.S. Sin (C.22) No.449     CARTIFICATION CONTRACTION CONTRACT	Product Length/Depth	70 millimetre
Product weight   034 klogram     Campionicsis   EK Mukud     Sissi C22 X0, 14-65   ES Sissi C22 X0, 14-65     ES Sissi C22 X0, 14-65   ES Sissi C22 X0, 14-65     Sissi C22 X0, 14-65   ES CS C22 X0, 14-65     Visiti Gas   Mission Participation Parterimos Partecoperate Participation Participation Parterimos Parti	Product height	30 millimetre
Compliances   CE Mahad     Derifications   E Sta Sit C22 201, 1455     SSA Sit C22 201, 1455   SSA Sit C22 201, 1455     SSA Sit C22 201, 1455   SSA Sit C22 201, 1455     SSA Sit C22 201, 1455   SSA Sit C22 201, 1455     SSA Sit C22 201, 1455   SSA Sit C22 201, 1455     SSA Sit C22 201, 1455   SSA Sit C22 201, 1455     SSA Sit C22 201, 1455   SSA Sit C22 201, 1455     SSA Sit C22 201, 1455   SSA Sit C22 201, 1455     Product Trademame   Product Trademame     Product Trademame	Product width	30 millimetre
Drdiections   1989   1989     Drdiect fiedenem   1999   1999     Product fradenem   1999   1999     Product fradenem </td <td>Product weight</td> <td>0.034 kilogram</td>	Product weight	0.034 kilogram
Poduci Fuedocame   M2     Poduci Fuedoca	Compliances	CE Marked
Product Type   Key-operated actuator     Product Sub Type   None     Catalog Notes   Key withdraw convertible with coding adapters M22-XC     Beacl color   Back     Beacl color   Back     Beacl actor   Back     Color   Back     Design   Back     Fited with:   Fited with:     Fited with:   Key operated Classical     Forter Information   Key operated Classical     Degree of protection (front side)   Key operated multiple metanters (fited with supplied equipment.     Degree of protection (front side)   Key operation     Idepand gammater   Key operation     Operation (fit side)   Key operation     Idepand gammater   Key operation     Operation (fit side)   Key operation     Idepand gammater   Key operation     Operation (fit side)   Key operations)     Idepand gammater   Key operations)     Idepand gammater   Key operations)     Idepand figurency   Key operations)     Idepand gammater   Key operations)     Idepand gammater   Key operations)     Idepand gammater	Certifications	IEC 60947-5 CSA Std. C22.2 No. 14-05 CSA Std. C22.2 No. 94-91 EN 60947-5 VDE CSA Class No.: 3211-03 CSA IEC/EN 60947 CSA File No.: 012528 IEC/EN 60947-5 CE CSA-C22.2 No. 14-05 VDE 0660 UL File No.: E29184 UL Category Control No.: NKCR CSA-C22.2 No. 94-91 UL LR DNV
Product Sub Type   None     Catalog Notes   Key withdraw convertible with coding adapters MZ2-XC, Not suitable for master key systems     Beater Coder   Back     Beater Coder   Back     Beater Coder   Back     Design   Fond transfer Key systems     Futed with:   Back     Functions   Back     Functions   Fond transfer Key systems     Functions   Fond transfer Key systems     Functions   Fond transfer Key Systems     Color   Fond transfer Key Systems     Functions   Fond transfer Key Systems     Functions   Fond transfer Key Systems     Color   Fond transfer Key Systems     Stare of protection   Fond transfer Key Systems     Degree of protection (from side)   Fond transfer Key Systems     Operating frequency   Key operation     Operating frequency   100 Operations/h     Operating frequency   Star     Operating frequency   Star     Operating frequency   Star     Operating frequency   Star     Star   Star     Star   Star     St	Product Tradename	M22
Catalog Notes   Key withdraw convertible with coding adapters M22-XC     Features & Functions   Black     Bezel color   Black     Bezel color   Black     Color   Black     Design   Black     Fitted with:   Black     Functions   Font ring     Functions   Font ring     Bezere of protection (front side)   Font virguity spring-return function, can be changed with coding parts M22-XC-W     Degree of protection (front side)   Font ring     Degree of protection (front side)   Fond with supplied equipment.     Operating frequency   100 Operations/h     Operating frequency   20.5 mm     Operating frequency   50.5 mm     Operating frequency   50.5 mm     Size   Font diameter: 29.7 mm     Operating frequency   61.5 Nm     Size   Font diameter: 29.7 mm     Operating frequency   61.5 Nm     Size   Font diameter: 29.7 mm     Size   61.5 Nm	Product Type	Key-operated actuator
Accessories   Issuitable for master key systems     Bezel color   Black     Bezel material   Black     Color   Black     Design   Black     Fitted with:   Black     Functions   Front ring     General information   Star-put/spring-return function, can be changed with coding parts M22-XC-Y     Degree of protection   Key coperated     Degree of protection (front side)   Key included with supplied equipment.     Degree of protection (front side)   Key included with supplied equipment.     Openaing diameter   Star-Supplied equipment.     Openaing frequency   Star-Supplied equipment.     Openaing frequency   Star-Supplied equipment.     Not subter from statical   Not supplied equipment.     Star-Supplied equipment.   Not supplied equipment.     Product category   Star-Supplied equipment.     Star-Supplied equipment.   Not supplied equipment.     Star-Supplied equipment.   Not supplied equipment.     Openaing frequency   Star-Supplied equipment.     Openating frequency   Star-Supplied equipment.     Star-Supplied equipment.   Star-Supplied equipment.     Stare	Product Sub Type	None
Bazel color     Black       Bazel material     Plastic       Color     Black       Design     Black       Design     Key operated       Futed with:     Front ring       Functions     Front ring       Begre of protection (front side)     I key included with supplied equipment.       Degree of protection (front side)     Ple6       Operations     100,000 Operations       Operation from action     Star- put/spring-return function.call       Operation front side)     I key included with supplied equipment.       Operation front side)     I key included with supplied equipment.       Operation front side)     I key included with supplied equipment.       Operation front side)     I key included with supplied equipment.       Operation front side)     I key included with supplied equipment.       Operation front side)     I key included with supplied equipment.       Operation from action     I key included with supplied equipment.       Operation from action     I key include with supplied equipment.       Operation from action     I key include with supplied equipment.       Operation from action     I key include with supplied equipmen	Catalog Notes	
Bazel material     Persic       Color     Black       Color     Black       Design     Black       Fitted with:     Font ring       Functions     Stay put/spring-return function, can be changed with coding parts M22-XC-Y       Central information     Marce       Accessories     I key included with supplied equipment.       Degree of protection (front side)     NEMA 4X, 13       Operating frequency     100,000 Operations/       Operating frequency     50 Marce       Operating frequency     50 Marce       Product category     50 Marce       Size     Marce       Sixbiching angle     60 Marce       Type     With	Features & Functions	
Color     Black       Design     Key operated Classical       Fitted with:     Front ring       Functions     Stay-put/spring-return function, can be changed with coding parts M22-XC-Y       General information     Stay-put/spring-return function, can be changed with coding parts M22-XC-Y       Accessories     1 key included with supplied equipment.       Degree of protection     NEMA 4X, 13       Degree of protection (front side)     IP66       Operating diameter     0,0000 Operations       Operating frequency     00,000 Operations/h       Operating frequency     00,000 Operations/h       Operating torque     C5 Nm       Product ategory     General information       Size     Fond diameter: 29.7 mm       Sixbithing angle     Q°       Type     Key operated button	Bezel color	Black
Design     Key operated Classical       Fited with:     Font ing       Functions     Sup-put/spring-return function, can be changed with coding parts M22-XC-Y       Ceneral information     Sup-out/spring-return function, can be changed with coding parts M22-XC-Y       Accessories     1 key included with supplied equipment.       Degree of protection (front side)     Kew operated with supplied equipment.       Degree of protection (front side)     Kew operation       Operating frequency     Kew operated with supplied equipment.       Operating frequency     Kew operations       Product category     Kew operations       Sitching angle     Kew operated button       Type     Kew operated button	Bezel material	Plastic
Itted with:   Find ring     Functions   Stay-put/spring-return function, can be changed with coding parts M22-XC-Y     Accessories   1 key icluded with supplied equipment.     Degree of protection   1 key icluded with supplied equipment.     Degree of protection (front side)   MEMA 4X, 13     Degree of protection (front side)   100,000 Operations     Operating frequency   100,000 Operations/     Operating frequency   100,000 Operations/     Operating torque   5.5 m     Product category   6.6 MID-Titan     Size   Font diameter: 29.7 mm     Size   0.000 Catestor (Protection)     Size   Font diameter: 29.7 mm     Type   Image: 20.7 mm	Color	Black
Functions   Say-put/spring-return function, can be changed with coding parts M22-XC-Y     General information   Say-put/spring-return function, can be changed with coding parts M22-XC-Y     Accessories   I key included with supplied equipment.     Degree of protection   NEMA 4X, 13     Degree of protection (front side)   100,000 Operations     Lifespan, mechanical   100,000 Operations     Operating frequency   60000 Operations/h     Operating torque   MAD   MAD     Product category   MAD   MAD   MAD     Size   Fond diameter: 29.7 mm   Fond diameter: 29.7 mm     Size   Fond diameter: 29.7 mm   Aud- °     Product category   Operations   Evoperated button	Design	
General informationImage: Section is a sectio	Fitted with:	Front ring
AccessoriesI key included with supplied equipment.Degree of protectionKEMA 4X, 13Degree of protection (front side)IP66Lifespan, mechanical2.5 mmOpenating frequency100 Operations/hOperating torque5.5 NmProduct categoryKMQ-TitanSizeSixtching angleTypeI et alOperating frequencyI et alSixtching angleI et alFrequencyI et alSixtching angleI et alSixtching angleI et alI hey included with supplied equipment.I hey included with supplied equip	Functions	Stay-put/spring-return function, can be changed with coding parts M22-XC-Y
Degree of protectionNEMA 4X, 13Degree of protection (front side)P66Lifespan, mechanical00,000 OperationsOpening diameter22.5 mmOperating frequency00 Operations/hOperating torque0.5 N·mProduct category646SizeFront diameter: 29.7 mmSwitching angle646Type640StateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateStateState<	General information	
Degree of protection (front side)P66Lifespan, mechanical100,000 OperationsOpening diameter22.5 mmOperating frequency100 Operations/hOperating torque55 N·mProduct category64 CSizeFont diameter: 29.7 mmSwitching angle64 CType64 CStateStateState54 CState54 CState<	Accessories	1 key included with supplied equipment.
Lifespan, mechanical   IO,000 Operations     Opening diameter   22.5 mm     Operating frequency   IO0 Operations/h     Operating torque   IO0 Operations/h     Product category   IOE     Size   Front diameter: 29.7 mm     Switching angle   IOI Operations     Type   IOE	Degree of protection	NEMA 4X, 13
Operating diameter22.5 mmOperating frequency100 Operations/hOperating torque0.5 N·mProduct category646SizeRMQ-TitanSwitching angle40°Type646Sure diameter: 29.7 mmSure diameter: 20.7 m	Degree of protection (front side)	IP66
Operating frequency IOO Operations/h   Operating torque 0.5 N·m   Product category RMO-Titan   Size Front diameter: 29.7 mm   Switching angle 40 °   Type Key-operated button	Lifespan, mechanical	100,000 Operations
Operating torqueImage: Section of the sec	Opening diameter	22.5 mm
Operating torqueImage: Section of the sec	Operating frequency	100 Operations/h
Product category PMQ-Titan   Size Front diameter: 29.7 mm   Switching angle 40 °   Type Key-operated button		
SizeFont diameter: 29.7 mmSwitching angle40°TypeKey-operated button		RMQ-Titan
Switching angle 40 °   Type Key-operated button		Front diameter: 29.7 mm
Type Key-operated button		

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
Communication	
Connection to SmartWire-DT	With SWD-RMQ connections Yes
Actuator	
Actuator color	Black
Actuator function	Spring-return Key withdrawable in position 0 Momentary
Actuator type	Кеу
Number of switch positions	2
Contacts	
Force for positive opening - min	0 N
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0 W
Rated operational current for specified heat dissipation (In)	0 A
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	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.
10.2.6 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.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	Not applicable.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## **Technical data ETIM 9.0**

Low-voltage industrial components (EG000017) / Front element for 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	2	
Type of control element	Кеу	
Suitable for illumination	No	

bur control element our indicator light cap struction type lens	Black Other
struction type lens	Other
	Round
e diameter mm	22.5
th opening mm	0
yht opening mm	0
tching function latching	No
ng-return	Yes
h front ring	Yes
erial front ring	Plastic
bur front ring	Black
ree of protection (IP), front side	IP66
ree of protection (NEMA)	4X, 13