### DATASHEET - M22-WRS/KC11/I



Key-operated actuator, maintained, 2 positions 0, I, Bezel: titanium, 1 NC, 1 N/O, Enclosure



Part no.	M22-WRS/KC11/I
Catalog No.	216526
Alternate Catalog	M22-WRS-KC11-IQ
No.	
EL-Nummer	4355299
(Norway)	

#### **Delivery program**

	Derivery program			
Konsiguide Complete unitKonsiguide Compl	Product range			RMQ-Titan
Single unit/Complete unit Complete unit   Design Complete unit   Exclosure Mained   Function: Mained   Connection type For Connection   Connection type Server connection   Response Server connection	Basic function			Housing Key-operated buttons
Beage Index of Exclosure   Function: Index of Exclosure   Function: Index of Exclosure   Connection type Index of Exclosure   Connection type Index of Exclosure   Number of locations Index of Exclosure   Key withdrawable in position Index of Exclosure   Enclosure courses Index of Exclosure   Rat Value Index of Exclosure   Degree of Protection Index of Exclosure   Note: Normally Open Index of Exclosure   Note: Normally Open Index of Exclosure opening to ECEEN SEM37-5-1   Note: Normally Open Index of Exclosure opening to ECEEN SEM37-5-1   Note: Normally Open Index of Exclosure opening to ECEEN SEM37-5-1   Note: Normally Open Index of Exclosure opening to ECEEN SEM37-5-1   Note: Normally Open Index of Exclosure opening to ECEEN SEM37-5-1   Note: Normally Open Index of Exclosure opening to ECEEN SEM37-5-1   Note: Normally Open Index of Exclosure opening to ECEEN SEM37-5-1   Note: Normally Open Index of Exclosure opening to ECEEN SEM37-5-1   Note: Sequence Index of Exclosure opening to ECEEN SEM37-5-1   Montum travel Index of Exclosure opening to ECEEN SEM37-5-1   Montum travel Index of Exclosure opening to ECEEN SEM37-5-1   Out that the sequence <t< td=""><td>Mounting hole diameter</td><td>Ø</td><td>mm</td><td>22.5</td></t<>	Mounting hole diameter	Ø	mm	22.5
Function: minimized   Function: minimized   Connection type res   Remetion type type type type type type type type	Single unit/Complete unit			Complete unit
Function: Model	Design			Enclosure
Image: series of the series				maintained
Control Screw connection   Note where of locations Screw connection   Number of locations Screw connection   Key with drawable in position Image: Screw connection   Colour Screw connection   Enclosure covers Gray   RAL Value Screw connection   Dages of Protection Screw connection   Control Screw connection   Rote of protection Screw connection   Control Screw connection   Rote of protection force as per DINE NO Soft-Screw Screw connection   Net N Screw connection   Maximum travel N Screw connection   Screw connection Screw co	Function:			
Number of locations Not suitable for mester key systems   Number of locations Part 3   Key withfarwable in position Part 4   Key withfarwable in position Part 4   Color Part 4   Ral. Value Part 4   Color Part 4   Ral. Value Part 4   Consers Part 4   Ral. Value Part 4   Consers Part 4   Route of Protection Part 4   Front ring Part 4   Contracts Part 4   NC = Normaly closed Part 4   Maximum force for positive opening Nor   Minimum				r 60°
Image: specific	Connection type			Screw connection
Number of locations   Page Page   Indexemble in position     Key withdrawable in position   0   0     Image: Colour   For   For     Rat Value   For   For     Rat Value   For   For     Consection   For   For     Consection   For   For     Consection   For   For     Contracts   For   For     NO = Normally closed   For   For     No Formally closed   For   For     No = Normally closed   For   For     No = Normally closed   For   For     Maximum travel   mm   5     Maintum force for positive opening to IEC/EN 66847-5-1   For     Minimum force for positive opening   For   For     Minimum force for positive opening   N   5     Contracts sequence   For   For     Minimum force for positive opening   For   For     Minimum force for positive opening   For   For     Minimum force for positive opening   For   For     For   For <t< td=""><td></td><td></td><td></td><td>Not suitable for master key systems</td></t<>				Not suitable for master key systems
Key withdraveable in position   Image: Section of the section of th				2 positions
Image: Solution of the second seco	Number of locations		Qty.	1
Color     Image: Color Color     Image: Color C	Key withdrawable in position			
Colour Find Sourd Coores				0
Enclosure covers   Fee   Fee   Fee   RL Value   RL Va05     Bages of Protection   Fee   Beech tinnium     Fornt ring   Beech tinnium   Fee   Beech tinnium     Contacts   In C Internation   In C Internation   In C Internation     N/C = Normally closed   In C Internation   In C Internation   In C Internation     N/C = Normally closed   International Contacts   International Contacts   International Contacts     N/C = Normally closed   International Contacts   International Contacts   International Contacts     N/C = Normally closed   International Contacts   International Contacts   International Contacts     N/C = Normally closed   International Contacts   International Contacts   International Contacts     Notes   International Contacts   International Contacts   International Contacts   International Contacts     Maximum travel   International Contacts   International Contacts   International Contacts   International Contacts     Minium Groep opsitive opening   International Contacts   International Contacts   International Contacts   International Contacts     Minium Groe Gro positive opening   Internat				I
RAL Value   RAL 7035     Degree of Protection   Ipitg rey, RAL 7035     Front ring   Beach titanium     Connection to SmartWire-DT   Beach titanium     Contacts   no     N/C = Normally closed   INC Image: State Stat	Colour			
Image: Protection Image: Protect	Enclosure covers			Grey
Degree of Protection   P66     Front ring   Bezl: titanium     Connection to SmartWire-DT   no     Contacts   In C On     NC = Normally closed   1NC On     Notes   1N0     Actuator travel and actuation force as per DIN EN 60947-51.   1N0     Maximum travel   mm   43     Maximum force for positive opening   0     Contact sequence   N   20     Contact sequence   Mm   57     Contact sequence   114   13     Listuctions   20   20     Contact sequence   N   Say-put/spring-trunt function, can be changed with coding parts M22-XC	RAL Value			RAL 7035
Find ring   Back: titanium     Contection to SmartWire-DT   no     Contacts   In C     NC = Normally closed   In C     Notes   In NO     Actuator travel and actuation force as per DIN EN 60947-5-1   In C     Maximum travel   mm   48     Maximum travel   mm   57     Minimum force for positive opening   NO   20     Contact sequence   N   14     Minimum force for positive opening   N   14     Minimum force for positive opening   N   20     Contact sequence   In 4   14     Muterions   N   20     Contact sequence   In 4   14     Muterions   N   20     Contact sequence   In 4   13     Muterions   In 4   13     Muterion   In 4   13				light grey, RAL 7035
Connection to SmartWire-DT   no     Contacts   INC = Normally closed   INC Image: Contact set of the set of t	Degree of Protection			IP66
Contacts   Mode and actuation force as per DIN EN 60947-5-1   INC International point of the set	Front ring			Bezel: titanium
N/C = Normally closed   Image: Source of the second of t	Connection to SmartWire-DT			no
N/0 = Normally open   1N/0     Notes   Image: Section of the section	Contacts			
Notes   Image: Search of the	N/C = Normally closed			1 NC \ominus
Actuator travel and actuation force as per DIN EN 60947-5-1,   mm   4.8     Maximum travel   mm   5.7     Minimum force for positive opening   N   20     Contact sequence   Image: Sectement of the secte	N/O = Normally open			1 N/O
K5.4.1 mn 4.8   Maximum travel mn 5.7   Minimum force for positive opening N 20   Contact sequence Image: Arrive of transform of tr	Notes			⊖ = safety function, by positive opening to IEC/EN 60947-5-1
Maximum travelmm5.7Minimum force for positive openingN0Contact sequenceImage: A sequence of the sequence of t				
Minimum force for positive opening N 20   Contact sequence Image: Contact sequence Image: Contact sequence Image: Contact sequence   Instructions Image: Contact sequence Image: Contact sequence Image: Contact sequence   Instructions Image: Contact sequence Image: Contact sequence Image: Contact sequence		mm		4.8
Contact sequence   Image: Contact sequence	Maximum travel	mm		5.7
Instructions Stay-put/spring-return function, can be changed with coding parts M22-XC-Y Key withdraw convertible with coding adapters M22-XC	Minimum force for positive opening	Ν		20
Key withdraw convertible with coding adapters M22-XC				
Information about equipment supplied With 1 key				Key withdraw convertible with coding adapters M22-XC
	Information about equipment supplied			With 1 key

Technical data			
General			
Standards			IEC/EN 60947 VDE 0660
Lifespan, mechanical	Operations	x 10 <sup>6</sup>	> 0.1
Operating frequency	Operations/h		≦ 100
Operating torque		Nm	≦ 0.5
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Degree of Protection			IP66
Ambient temperature			
Open		°C	-25 - +70
Mounting position			As required
Mechanical shock resistance		g	30 Shock duration 11 ms Sinusoidal according to IEC 60068-2-27
Cable entry knockouts			
Base		Quantity x M…	2 x 16
Sides		Quantity x M…	1 x 20 2 x 25/20
shipping classification			DNV GL LR
			<b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contraction</b> <b>Contr</b>

#### Contacts

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### Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I <sub>n</sub>	А	6
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0.11
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties	
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	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
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 7.0**

Low-voltage industrial components (EG000017) / Control circuit devices combination	Low-voltage industrial components (EG000017) / Control circuit devices combination in enclosure (EC000225)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Command and alarm device combination in housing (ecl@ss10.0.1-27-37-12-16 [AKF034014])			
Number of command positions			1
Number of push buttons			0
Number of indicator lights			0
Number of key switches			1
Number of selector switches			1
Number of mushroom-shaped push-buttons			0
Suitable for emergency stop			No
Rated control supply voltage Us at AC 50HZ		V	115 - 500
Rated control supply voltage Us at AC 60HZ		V	115 - 500
Rated control supply voltage Us at DC		V	24 - 220
Colour housing cover			Grey
Material housing			Plastic
Number of contacts as normally open contact			1
Number of contacts as normally closed contact			1
Number of contacts as change-over contact			0
Degree of protection (IP)			IP66
Degree of protection (NEMA)			4X

# **Approvals**

Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	012528
CSA Class No.	3211-03
North America Certification	UL listed, CSA certified
Degree of Protection	UL/CSA Type 3R, 4X, 12, 13

**Dimensions** 

