

Function element, for combination with RMQ-Titan operating elements  
M22-..., 2 changeover contact, Front fixing

Part no. **M22-SWD-K22**

**115965**

EL Number

**4355001**

(Norway)

General specifications		
Product name		Eaton Moeller® series M22 Function element
Part no.		M22-SWD-K22
EAN		4015081157051
Product Length/Depth		40 millimetre
Product height		42 millimetre
Product width		17 millimetre
Product weight		0.013 kilogram
Certifications		EN 50178 CSA File No.: 2324643 UL Category Control No.: NKCR CSA Class No.: 3211-07 UL File No.: E29184 CSA IEC/EN 61131-2 UL BV LRS
Product Tradename		M22
Product Type		Function element
Product Sub Type		None
Features & Functions		
Electric connection type		Flat plug-in connection
Functions		For combination with RMQ-Titan operating elements M22-... Diagnosis function
General information		
Degree of protection		IP20
Model		Top mounting
Mounting method		Front fastening
Overvoltage category		Not applicable
Pollution degree		2
Product category		SmartWire-DT RMQ connections
Ambient conditions, mechanical		
Constant acceleration		1 g, 8.4 - 150 Hz, according to IEC/EN 61131-2, Vibrations
Constant amplitude		3,5 mm, 5 - 8.4 Hz, according to IEC/EN 61131-2, Vibrations
Drop and topple		50 mm Drop height, Drop to IEC/EN 60068-2-31
Height of fall (IEC/EN 60068-2-32) - max		0.3 m
Mounting position		As required
Shock resistance		15 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms, 9 Impacts
Climatic environmental conditions		
Ambient operating temperature - min		-30 °C
Ambient operating temperature - max		70 °C
Ambient storage temperature - min		40 °C
Ambient storage temperature - max		80 °C
Environmental conditions		Condensation: prevent with appropriate measures
Relative humidity		5 - 95 % (non-condensing, IEC/EN 60068-2-30)
Electro magnetic compatibility		
Air discharge		8 kV, according to IEC 61131-2, level 3, ESD
Burst impulse		2 kV, Supply cable, according to IEC/EN 61131-2, Level 3 1 kV, SmartWire-DT cable, according to IEC/EN 61131-2, Level 3

Contact discharge		4 kV, according to IEC/EN 61131-2, Level 2, ESD
Electromagnetic fields		1 V/m at 2.0 - 2.7 GHz (according to IEC/EN 61131-2:2008) 3 V/m at 1.4 - 2 GHz (according to IEC/EN 61131-2:2008) 10 V/m at 80 - 1000 MHz (according to IEC/EN 61131-2:2008)
Radiated RFI		10 V (IEC/EN 61131-2:2008, Level 3)
Radio interference class		Class A (EN 55011)
<b>Electrical rating</b>		
Rated operational current (Ie) at AC-15, 220 V, 230 V, 240 V		0 A
<b>Communication</b>		
Addressing		Address set automatically
Connection		SmartWire-DT plug connector SWD4-8SF2-5
Connection to SmartWire-DT		Yes
Connection type		Front fixing SWD: Plug, 8-pole
LED indicator		Status indication of SmartWire-DT network: Green LED Status indication of Switching state: Yellow LED
Station		SmartWire-DT slave, SmartWire-DT network
<b>Contacts</b>		
Number of contacts (change-over contacts)		0
Number of contacts (normally closed contacts)		2
Number of contacts (normally open contacts)		2
<b>Design verification</b>		
Equipment heat dissipation, current-dependent Pvid		0 W
Heat dissipation capacity Pdis		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		0.3 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		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.
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		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 9.0

Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ec@ss13-27-37-13-02 [AKN342018])		
Number of contacts as change-over contact		0

Number of contacts as normally open contact		2
Number of contacts as normally closed contact		2
Number of fault-signal switches		0
Rated operation current I <sub>e</sub> at AC-15, 230 V	A	0
Type of electric connection		Flat plug-in connection
Model		Clip-on
Mounting method		Front fastening
Lamp holder		None