Mushroom actuator, RMQ-Titan, Mushroom, momentary, Mushroom black, black, Blank, Bezel: black



Part no. M22S-DP-S Catalog No. 216713 Alternate Catalog M22S-DP-SQ **6**

Delivery program

Delivery program			
Product range			RMQ-Titan
Basic function			Mushroom-headed pushbutton
Mounting hole diameter	Ø	mm	22.5
Single unit/Complete unit			Single unit
Design			Mushroom
			momentary
Colour			
Mushroom			black
Button plate			
button plate			black
			Blank
Degree of Protection			IP66, IP67, IP69
Front ring			Bezel: black
Connection to SmartWire-DT			yes with SWD-RMQ connections
Function			momentary

Technical data General

delleral			
Standards			IEC/EN 60947 VDE 0660
Lifespan, mechanical	Operations	x 10 ⁶	>5
Operating frequency	Operations/h		≦ 3600
Actuating force		n	≦5
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Degree of Protection			IP66, IP67, IP69
Ambient temperature			
Open		°C	-25 - +70
Storage		°C	- 40 - + 80
Mounting position			As required
Mechanical shock resistance		g	30 Shock duration 11 ms Sinusoidal according to IEC 60068-2-27
shipping classification			DNV GL LR

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	0
Heat dissipation per pole, current-dependent	P_{vid}	W	0
Equipment heat dissipation, current-dependent	P_{vid}	W	0
Static heat dissipation, non-current-dependent	P_{vs}	W	0
Heat dissipation capacity	P _{diss}	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	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 8.0

Low-voltage industrial components (EG000017) / Front element for mushroom push-button (EC001038)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for mushroom push-button actuators (eci@ss10.0.1-27-37-12-12 [AKF030014])

Color butonBlackConstruction type lensRoundDiameter capmm36.5Hole diametermm25.5Width openingmm0Begree of protection (IP)Prof/P69KDegree of protection (NEMA)FlatType of buttonFlatSuitable for illuminationProf/P69KWith lightingNoSupply voltage lampNoSwitching function latchingProf/P69KSyring-returnNoWith front ringNoMaerial front ringPesicClour front ringPesicSuitable for emergency stopBackUnlocking methodPesicSuitable for emergency stopNoUnlocking methodPesicSuitable for emergency stopNoUnlocking methodPesicSuitable for emergency stopNoUnlocking methodPesicSuitable for emergency stopNo	(66166616.6.1 27 67 12 12 [ritid 66611])		
Diameter cap Hole diameter Width opening Height opening Degree of protection (IP) Degree of protection (NEMA) Type of button With lighting Suitable for illumination With lighting Supply voltage lamp Switching function latching Spring-return With front ring Material front ring Material front ring Suitable for emergency stop Material for emergency	Colour button		Black
Hole diameter mm 22.5 Width opening mm 0 Height opening mm 0 Degree of protection (IP) mm 0 Degree of protection (NEMA) 4X, 13 Type of button Flat Suitable for illumination No With lighting No Supply voltage lamp V 0 Switching function latching V No Spring-return Yes Ves With front ring Yes Plastic Material front ring Plastic Black Suitable for emergency stop No No	Construction type lens		Round
Width opening mm 0 Beight opening mm 0 Degree of protection (IP) IP67/IP69K Degree of protection (NEMA) 4X, 13 Type of button Flat Suitable for illumination No With lighting No Supply voltage lamp V 0 Switching function latching No No Spring-return Yes With front ring Yes Material front ring Plastic Colour front ring Black Suitable for emergency stop No	Diameter cap	mm	36.5
Height opening	Hole diameter	mm	22.5
Degree of protection (IP) Degree of protection (NEMA) Type of button Suitable for illumination With lighting Switching function latching Spring-return With front ring Material front ring Colour front ring Suitable for emergency stop IP67/IP69K 4X, 13 Flat No No No No No No Plastic Black No IP67/IP69K Att, 13 A	Width opening	mm	0
Degree of protection (NEMA) Type of button Suitable for illumination With lighting Supply voltage lamp V O Switching function latching Spring-return With front ring Material front ring Colour front ring Suitable for emergency stop 4X, 13 Flat Flat No No No Plastic Black Suitable for emergency stop	Height opening	mm	0
Type of button Suitable for illumination With lighting No Supply voltage lamp V 0 Switching function latching Spring-return With front ring With front ring Colour front ring Suitable for emergency stop Flat No No No No No No Spring-return Yes Yes Plastic Black No No	Degree of protection (IP)		IP67/IP69K
Suitable for illumination With lighting No Supply voltage lamp V O Switching function latching Spring-return With front ring Material front ring Colour front ring Suitable for emergency stop No No No No No No No No No	Degree of protection (NEMA)		4X, 13
With lighting Supply voltage lamp V 0 Switching function latching Spring-return With front ring Material front ring Colour front ring Suitable for emergency stop No No Plastic Black No	Type of button		Flat
Supply voltage lamp V 0 Switching function latching No Spring-return Yes With front ring Material front ring Colour front ring Black Suitable for emergency stop No	Suitable for illumination		No
Switching function latching No Spring-return Yes With front ring Material front ring Colour front ring Black Suitable for emergency stop No	With lighting		No
Spring-return With front ring Yes Material front ring Plastic Colour front ring Black Suitable for emergency stop No	Supply voltage lamp	V	0
With front ring Material front ring Colour front ring Black Suitable for emergency stop Yes Plastic Black No	Switching function latching		No
Material front ring Plastic Colour front ring Black Suitable for emergency stop No	Spring-return		Yes
Colour front ring Black Suitable for emergency stop No	With front ring		Yes
Suitable for emergency stop No	Material front ring		Plastic
	Colour front ring		Black
Unlocking method None	Suitable for emergency stop		No
	Unlocking method		None