DATASHEET - M22S-DRL-X



Illuminated pushbutton actuator, RMQ-Titan, Flush, maintained, Without button plate, Bezel: black



Part no.M22S-DRL-XCatalog No.216956Alternate CatalogM22S-DRL-XQNo.No.

Delivery program

Basic function Image: Section of the				
Mounting hole diameter State State </td <td>Product range</td> <td></td> <td></td> <td>RMQ-Titan</td>	Product range			RMQ-Titan
Single unit/Complete unit image image Single unit Design Image Image Image Button plate Image Image Image button plate Image Image Image Degree of Protection Image Image Image Front ring Image Image Image Connection to SmartWire-DT Image Image Image	Basic function			Illuminated pushbutton actuators
Design Flush Button plate Maintained button plate Maintained Degree of Protection Maintained Front ring Maintained Connection to SmartWire-DT Maintained	Mounting hole diameter	Ø	mm	22.5
Partian plate Part	Single unit/Complete unit			Single unit
Button plateImage: Button plateImage: Button plateImage: Button plateImage: Button platebutton plateImage: Button plateImage: Button plateDegree of ProtectionImage: Button plateImage: Button plateFront ringImage: Button plateBezel: blackConnection to SmartWire-DTImage: Button plateImage: Button plate	Design			Flush
button plate Mithout button plate Degree of Protection P66, IP67, IP69 Front ring Resel: black Connection to SmartWire-DT Iffee and the second				maintained
Degree of Protection IP66, IP67, IP69 Front ring IP66, IP67, IP69 Connection to SmartWire-DT IP66 State IP66, IP67, IP69 State IP66, IP67, IP69 State IP66, IP67, IP69	Button plate			
Front ring Bezel: black Connection to SmartWire-DT Image: State of the stateo	button plate			Without button plate
Connection to SmartWire-DT yes with SWD-RMQ connections	Degree of Protection			IP66, IP67, IP69
with SWD-RMQ connections	Front ring			Bezel: black
Instructions Stay-put/spring-return function can be changed on device	Connection to SmartWire-DT			
	Instructions			Stay-put/spring-return function can be changed on device

Technical data General

General			
Standards			IEC/EN 60947 VDE 0660
Lifespan, mechanical	Operations	x 10 ⁶	>1
Operating frequency	Operations/h		≦ 1800
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
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
			P Register



Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	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 7.0

Low-voltage industrial components (EG000017) / Front element for push button (EC000221)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for push-button actuators (ecl@ss10.0.1-27-37-12-10 [AKF028014])

Color button Without button plate Number of command positions I I Construction type lens Mma Bound Hold diameter mma 2.5 With type leng mma I Hold pointing mma I Hold type leng mma I With type leng mma I Hold type leng Mma I State for Hull type leng I I State for Hull type leng I I			
Construction type lens Image Read Read Hole diameter mm 2.5 Vidth opening mm 0 Height opening mm 0 Type of button mm Fall Svidabe for illumination Mm Fall With protective cover Mm Fall Labeled Mm No Svitching function latching Mm Svitching function latching Svitching function latching Mm Svitching function latching Svitching functing Mm Svitching f	Colour button		Without button plate
Ande diameter Mode Mode 25 Width opening mm 0 Height opening mm 0 Type of button mm Flat Suitable for illumination Mm Flat Vidth opening Mm Flat Suitable for illumination Flat Flat <td>Number of command positions</td> <td></td> <td>1</td>	Number of command positions		1
Width opening mm imm Height opening mm 0 Type of button mm Fla Suitable for illumination Fla Fla Suitable for illumination Mm Suitable for illumination Vith protective cover Fla Suitable for illumination Suitable for illumination Mm Suitable for illumination Suitable for infing Suitable for illumination Suitable for illumination Suitable for infing Suitable for illumination Suitable for illumination Suitable for infing Suitable for illumination Suitable for illumination Suitable for infing Suitable for illumination Suitable for illum	Construction type lens		Round
Height opening Mmm O Type of button Fat Fat Suitable for illumination Fat Fat With protective cover Fat Fat Labelled No Fat Switching function latching Fat Fat Spring-return Fat Fat Material front ring Fat Fat Colour front ring Fat Fat Page of protection (IP), front side Fat Fat	Hole diameter	mm	22.5
Type of button File Suitable for illumination File With protective cover File Labelled No Switching function latching File Spring-return File With front ring File Naterial front ring File Colour front ring File Degree of protection (IP), front side File	Width opening	mm	0
Suitable for illuminationImage: Sector of the s	Height opening	mm	0
With protective coverImage: Section of the section of th	Type of button		Flat
LabelledNoSwitching function latchingYesSpring-returnYesWith front ringYesMaterial front ringYesColour front ringYesDegree of protection (IP), front sideYesYe	Suitable for illumination		Yes
Switching function latchingPart of the sector o	With protective cover		No
Spring-return Yes With front ring Yes Material front ring Plastic Colour front ring Image: Spring - Sp	Labelled		No
With front ring Yes Material front ring Image: Colour front ring Degree of protection (IP), front side Image: Colour front ring	Switching function latching		Yes
Material front ring Plastic Colour front ring Black Degree of protection (IP), front side IP67/IP69K	Spring-return		Yes
Colour front ring Black Degree of protection (IP), front side IP67/IP69K	With front ring		Yes
Degree of protection (IP), front side	Material front ring		Plastic
	Colour front ring		Black
Degree of protection (NEMA), front side 4X	Degree of protection (IP), front side		IP67/IP69K
	Degree of protection (NEMA), front side		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



