DATASHEET - M22-PV



Emergency stop/emergency switching off pushbutton, RMQ-Titan, Mushroom-shaped, 38 mm, Non-illuminated, Pull-to-release function, Red, yellow, RAL 3000



Part no.	M22-PV
Catalog No.	216876
Alternate Catalog	M22-PVQ
No.	
EL-Nummer	4355321
(Norway)	

Delivery program

Basi función of linear of				
Mounting hole diameterØmm2.5Single unit/Complete unitSingle unitSingle unitDameterØmm8IlluninationØMmNon-HuluninatedDescriptionMMarcer of according to ISO 13850/EN 418Oul-to-release functionMushroom headMMRedBaseRAL ValueMushroom fandedVNon-Muse of according to ISO 13850/EN 418Degree of ProtectionMushroom fandedNon-Muse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Degree of ProtectionMushroom fandedNon-Muse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Degree of ProtectionMuse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Degree of ProtectionMuse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Degree of ProtectionMuse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Degree of ProtectionMuse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Degree of ProtectionMuse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Degree of ProtectionMuse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Non-Muse of according to ISO 13850/EN 418Degree of	Product range			RMQ-Titan
Base Rel Single unit Base RAL Yalue Second Base Rel Second RAL Yalue Second Second Base Rel Second Rat Yalue Second Second Base Second Second Rat Yalue Second Second Base Second Second Rat Yalue Second Second Description Second Second Second Second Second	Basic function			Controlled stop pushbuttons/emergency-stop buttons
Design Mushroom-shaped Diameter Mushroom-shaped Illumination Sa Description Foreit and set of the set of	Mounting hole diameter	Ø	mm	22.5
Diameter Mm 38 Illumination Non-illuminated Description FMM Pull-to-release function Colour Tamper-proof according to ISO 13850/EN 418 Red Mushroom head Red FMM Base FML Pale FMM RAL Value FMM Relour Degree of Protection FMM FMM Contertion to SmartWire-DT FMM FMM	Single unit/Complete unit			Single unit
Illumination Non-illuminated Description Full-to-release function Colour Tamper-proof according to ISO 13850/EN 418 Mushroon head Fed See Rel Base yellow RAL Value Felow Degree of Protection Yellow Concetion to SmartWire-DT Yellow	Design			Mushroom-shaped
Description Full-to-release function Colour Tamper-proof according to ISO 13850/EN 418 Mushroom head Mushroom head Base Vull-to-release function Rat Vull-to-release function Rat Vull-to-release function Red Vull-to-release function Red Vull-to-release function Rat Vull-to-release function Red Vull-to-release f	Diameter	Ø	mm	38
Description Tamper-proof according to ISO 13850/EN 418 Colour Red Mushroom head Red Search yellow Base yellow RAL Value RAL Salue RAL 3000 Degree of Protection Fees (Protection Comment) Pees (Protection Comment) Connection to SmartWire-DT Connection to SmartWire DT Fees (Protection Comment)	Illumination			Non-illuminated
Colour Image: Colour Image: Colour Red Mushroom head Red Image: Colour				Pull-to-release function
Mushroom head Red Mushroom head Image: Section 1 Section 2 Image: Section 2 Base Section 2 RAL Value Image: Section 2 Degree of Protection Image: Section 2 Connection to SmartWire-DT Image: Section 2	Description			Tamper-proof according to ISO 13850/EN 418
Base Felow Felow Felow RAL Value Felow RAL 3000 Felow Degree of Protection Felow Felow Felow Connection to SmartWire-DT Felow Felow Felow	Colour			
RAL Value RAL 3000 Degree of Protection IMA Connection to SmartWire-DT IMA	Mushroom head			Red
RAL Value RAL 3000 Degree of Protection IMA Connection to SmartWire-DT IMA				
Degree of Protection IP66, IP69 Connection to SmartWire-DT IP66	Base			yellow
Connection to SmartWire-DT no	RAL Value			RAL 3000
	Degree of Protection			IP66, IP69
Instructions Max. number of contacts: four M22-(C)K01,10 or two M22-(C)K02,20,11	Connection to SmartWire-DT			no
	Instructions			Max. number of contacts: four M22-(C)K01,10 or two M22-(C)K02,20,11

Technical data

General			
Standards			IEC/EN 60947 VDE 0660
Lifespan, mechanical	Operations	x 10 ⁶	> 0.1
Operating frequency	Operations/h		≦ 600
Actuating force		n	≦ 50
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Degree of Protection			IP66, IP69
Ambient temperature			
Open		°C	-25 - +70
Mounting position			As required
Mechanical shock resistance		g	50 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	I _n	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 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 (ecl@ss10.0.1-27-37-12-12 [AKF030014])

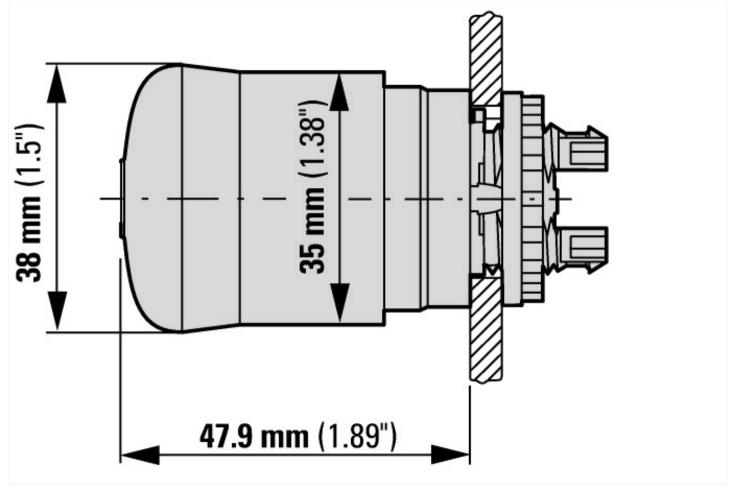
Colour button		Red
Construction type lens		Round
Diameter cap	mm	38
Hole diameter	mm	22.5
Width opening	mm	0
Height opening	mm	0

Degree of protection (IP)	IP66
Degree of protection (NEMA)	4X
Type of button	Flat
Suitable for illumination	No
Switching function latching	Yes
Spring-return	No
With front ring	No
Material front ring	Other
Colour front ring	Other
Suitable for emergency stop	Yes
Unlocking method	Pull-release

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



Additional product information (links)

DGUV Test Mark Customer Information

http://www.dguv.de/medien/dguv-test-medien/_pdf_zip_doc_ppt/agb-und-pzo/ dguv_test_zeichen_infoblatt_kunden.pdf