${\bf Emergency\ stop/emergency\ switching\ off\ pushbutton,\ RMQ-Titan,\ Palm-response}$ tree shape, 45 mm, Non-illuminated, Key-release, MS1, Red, yellow, RAL 3000, Not suitable for master key systems



M22-PVS45P-MS1 Part no.

121468

**EL Number** 4315249

Product name	(Norway)	
Part no.	General specifications	
FOALCE tangst/Deppth Product transpart Compliances Product Tradename Product Tradename Product Tradename Product Sub Type Control Type None None None None None None None Non	Product name	Eaton Moeller® series M22 Emergency stop/emergency switching off pushbutton
Product Length Velpth         \$3 millimetre           Product belajeth         45 millimetre           Product width         45 millimetre           Product widght         002 kilogram           Contact Manufacturer         Contact Manufacturer           Certifications         IECEN 8006** VDE 8000** UR           Product Tradename         M22           Product Type         M22           Product Sub Type         None           Catalog Noise         None           Product Sub Type         Not suitable for master key systems           Catalog Noises         Other           Besel color         Other           Besel color         Other           Besel material         Other           Color         Red           Design         Other           Besel material         Other           Manual Manua	Part no.	M22-PVS45P-MS1
Product height Product width Product width Bracket width Compliances Curtifications Curtificatio	EAN	4015081192885
Product width Product weight Complances Certifications Certificati	Product Length/Depth	93 millimetre
Product veright Compliances Certifications Certifications Certifications Certifications Certifications Certifications Certifications  Product Tradename Certifications Certificat	Product height	45 millimetre
Compliances         Contact Manufacturer           Certifications         IECNN 98987 vote 6890 CL VE 6890 CL	Product width	45 millimetre
Curtifications  Curtifications  Product Tradename Product Trage Product Trage Product Trage Product Trage Product Trage Product Type Product Sub Type Product Sub Type Product Sub Type Product Sub Type Other Other Product Sub Type Other Other Product Sub Type Other	Product weight	0.062 kilogram
Product Tradename Product Type Product Type Product Type Product Type Catalog Notes None Catalog Notes Notes Notes Product Stape Catalog Notes Product	Compliances	Contact Manufacturer
Froduct Type Product Sub Type Catlog Notes  Features & Functions Bease color  Bease color  Bease loar  Bease metrial  Color  Design Features  Feat	Certifications	VDE 0660 GL DNV
Product Sub Type Catalog Notes  Beat Color Beater Sak Functions  Bezel color C	Product Tradename	M22
Teatures & Functions  Base color  Base color  Base color  Bezel material  Color  Design  Peatures  Features  Mon-illuminated  Mon-ill	Product Type	Emergency stop/emergency switching off pushbutton
Bezel color Base color Base color Bezel material Color Color Besign Besi	Product Sub Type	None
Bezel color Base color Pellow Color Red Color Red Color Red Color Red Red	Catalog Notes	Not suitable for master key systems
Base color  Bezel material  Color  Design  Design  Peatures  Tamper-proof (according to ISO 13890, EN 418)  Illumination  Non-illuminated  Key code  AL-number  AL-number  Oulocking method  Ceneral information  Accessories  Degree of protection  Degree of protection  Degree of protection  Opening diameter  Opening diameter  Opening diameter  Opening frequency  Product category  Route Category  Ambient conditions, mechanical  Mounting position  As required  Mounting position  Shock resistance  Ambient conditions, mechanical  Anbient conditions  Anbient conditions  Anbient condriuns  Anbient operating temperature - min	Features & Functions	
Bezel material Other Color Red Color Design Palm-tree shaped Classical Palm-tree shaped Classical Tamper-proof (according to ISO 13850, EN 418) Illumination Non-illuminated N	Bezel color	Other
Color  Design Palm-tree shaped Classical Plam-tree shaped Classical Roo-illaminated Rey-release Rey-re	Base color	Yellow
Palm-tree shaped Classical Features Tamper-proof (according to ISO 13850, EN 418) Illumination Non-illuminated Key code MS1 AAL-number 3000 Unlocking method Key-release General information Accessories 1 key included with supplied equipment.  Degree of protection PEFRO PROPERTION PRODUCT CONTROLL PROPERTION PROPERTION PRODUCT CONTROLL PROPERTION PROPE	Bezel material	Other
Features Tamper-proof (according to ISO 13850, EN 418) Illumination Non-illuminated Key code MS1 RAL-number 3000 Unlocking method Key-release  Ceneral information Ceneral information Accessories 1 key included with supplied equipment. Degree of protection NEMA 4X [P57/IP69K Lifespan, mechanical 100,000 Operations Upening diameter 22.5 mm Operating frequency 600 Operations/h Product category RMC-Trans Suitable for Emergency stop Type Controlled stop pushbutton/emergency-stop button  Ambient conditions, mechanical Mounting position Shock resistance 50 g, Mechanical, According to IEC/EN 80088-2-27, Sinusoidal shock 11 ms Mechanical, According to IEC/EN 80088-2-27, Sinusoidal shock 11 ms Mechanical according to IEC/EN 80088-2-27, Sinusoidal shock 11 ms Mechanical pemperature - min - 25 °C Ambient operating temperature - max - 70 °C	Color	Red
Illumination   Non-illuminated   Non-illuminated   Key code   MS1   3000     RAL-number   3000   Key-release   Reneral information   Recessories   1 key included with supplied equipment.   Regular method   Re	Design	
Key code  RAL-number  Unlocking method  General information  Accessories  Degree of protection  Lifespan, mechanical  Opening diameter  Opening diameter  Operating frequency  Product category  Suitable for  Type  Controlled stop pushbutton/emergency-stop button  Ambient conditions, mechanical  Mounting position  Ambient conditions  Ambient operating temperature - min  Ambient operating temperature - min  Ambient operating temperature - min  Ambient operating temperature - max  Ambient operating temperature - max  Mounting position  MS1  Key oncluded with supplied equipment.  NEMA AX I PET/IPESK  I key included with supplied equipment.  NEMA AX IPET/IPESK  Rey included with supplied equipment.  NEMA AX IPET/IPESK  I key included with supplied equipment.  NEMA AX IPET/IPESK  Rey included with supplied equipment.  NEMA AX IPET/IPESK INCLUDENT AX INCL	Features	Tamper-proof (according to ISO 13850, EN 418)
RAL-number Unlocking method Key-release  General information  Accessories  Degree of protection  Lifespan, mechanical  Opening diameter  Opening diameter  Operating frequency Product category  Suitable for Type  Controlled stop pushbutton/emergency-stop button  Ambient conditions, mechanical  Mounting position  As required  Mounting position  As required  Shock resistance  Ambient operating temperature - min  Ambient operating temperature - min  Ambient operating temperature - max  Mounting perating temperature - max	Illumination	Non-illuminated
Unlocking method  General information  Accessories  I key included with supplied equipment.  I key included with suppli	Key code	MS1
Accessories 1 key included with supplied equipment.  Degree of protection NEMA 4X [P67]/P68K  Lifespan, mechanical 100,000 Operations 100,000 Operations 22.5 mm  Opening diameter 22.5 mm  Operating frequency 600 Operations/h  Product category RMO_Titan Emergency stop Controlled stop pushbutton/emergency-stop button Emergency stop Controlled stop pushbutton/emergency-stop button Ambient conditions, mechanical  Mounting position As required Shock resistance 50 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms Mechanical perating temperature - min -25 °C  Ambient operating temperature - max 70 °C	RAL-number	3000
Accessories  Degree of protection  NEMA 4X IP67/IP69K  Lifespan, mechanical  Opening diameter  Operating frequency  Operating frequency  Froduct category  Suitable for  Type  Controlled stop pushbutton/emergency-stop button  Ambient conditions, mechanical  Mounting position  Shock resistance  Mounting position  As required  So g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms Mechanical, According to IEC/EN 60068-2-27  Ambient operating temperature - min  Ambient operating temperature - min  Ambient operating temperature - max  1 key included with supplied equipment.  NEMA 4X IP67/IP69K  100,000 Operations  22.5 mm  600 Operations/h  Emergency stop  Controlled stop pushbutton/emergency-stop button  Emergency stop  Controlled stop pushbutton/emergency-stop button  As required  So g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms Mechanical, According to IEC/EN 60068-2-27  Ambient operating temperature - min  Ambient operating temperature - min  Ambient operating temperature - max	Unlocking method	Key-release
Degree of protection  NEMA 4X IP67/IP69K  Lifespan, mechanical  100,000 Operations  100,000 Operations  22.5 mm  Operating frequency  600 Operations/h  Product category  RMQ-Titan  Suitable for  Type  Controlled stop pushbutton/emergency-stop button  Ambient conditions, mechanical  Mounting position  Shock resistance  NEMB 4X IP67/IP69K  And 500, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms Mechanical, According to IEC/EN 60068-2-27  Ambient operating temperature - min  Ambient operating temperature - min  Ambient operating temperature - max  NEMA 4X IP67/IP69K  100,000 Operations  Emergency  Emergency stop  Controlled stop pushbutton/emergency-stop button  As required  50 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms Mechanical, According to IEC/EN 60068-2-27  Sinusoidal shock 11 ms Mechanical, According to IEC/EN 60068-2-27  Ambient operating temperature - min  Ambient operating temperature - max	General information	
Lifespan, mechanical 100,000 Operations  Opening diameter 22.5 mm  Operating frequency 600 Operations/h  Product category RMQ-Titan  Suitable for Emergency stop  Type Controlled stop pushbutton/emergency-stop button  Ambient conditions, mechanical  Mounting position As required  Shock resistance 50 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms Mechanical, According to IEC/EN 60068-2-27  Ambient operating temperature - min -25 °C  Ambient operating temperature - max 70 °C	Accessories	1 key included with supplied equipment.
Operating frequency Operat	Degree of protection	
Operating frequency Product category RMQ-Titan  Suitable for Emergency stop  Type Controlled stop pushbutton/emergency-stop button  Ambient conditions, mechanical  Mounting position Shock resistance Shock resistance Climatic environmental conditions Ambient operating temperature - min Ambient operating temperature - max  600 Operations/h  Emergency stop Controlled stop pushbutton/emergency-stop button  And s required So g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms Mechanical, According to IEC/EN 60068-2-27  -25 °C Ambient operating temperature - max  70 °C	Lifespan, mechanical	100,000 Operations
Product category  Suitable for  Emergency stop  Type  Controlled stop pushbutton/emergency-stop button  Ambient conditions, mechanical  Mounting position  As required  Shock resistance  Shock resistance  Shock position  Shock resistance  Climatic environmental conditions  Ambient operating temperature - min  Ambient operating temperature - max  RMQ-Titan  Emergency stop  Controlled stop pushbutton/emergency-stop button  As required  50 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms Mechanical, According to IEC/EN 60068-2-27  To °C	Opening diameter	22.5 mm
Suitable for Emergency stop  Type Controlled stop pushbutton/emergency-stop button  Ambient conditions, mechanical  Mounting position As required  Shock resistance 50 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms Mechanical, According to IEC/EN 60068-2-27  Climatic environmental conditions  Ambient operating temperature - min -25 °C  Ambient operating temperature - max 70 °C	Operating frequency	600 Operations/h
Type Controlled stop pushbutton/emergency-stop button  Ambient conditions, mechanical  Mounting position As required  Shock resistance 50 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms Mechanical, According to IEC/EN 60068-2-27  Climatic environmental conditions  Ambient operating temperature - min -25 °C  Ambient operating temperature - max 70 °C	Product category	RMQ-Titan
Ambient conditions, mechanical  Mounting position  Shock resistance  So g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms Mechanical, According to IEC/EN 60068-2-27  Climatic environmental conditions  Ambient operating temperature - min  -25 °C  Ambient operating temperature - max  70 °C	Suitable for	Emergency stop
Mounting position  Shock resistance  50 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms Mechanical, According to IEC/EN 60068-2-27  Climatic environmental conditions  Ambient operating temperature - min  -25 °C  Ambient operating temperature - max  70 °C	Туре	Controlled stop pushbutton/emergency-stop button
Mounting position  Shock resistance  50 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms Mechanical, According to IEC/EN 60068-2-27  Climatic environmental conditions  Ambient operating temperature - min  -25 °C  Ambient operating temperature - max  70 °C	Ambient conditions, mechanical	
Shock resistance  50 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms Mechanical, According to IEC/EN 60068-2-27  Climatic environmental conditions  Ambient operating temperature - min  -25 °C  Ambient operating temperature - max  70 °C		As required
Ambient operating temperature - min -25 °C  Ambient operating temperature - max -70 °C		50 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms
Ambient operating temperature - max 70 °C	Climatic environmental conditions	
Ambient operating temperature - max 70 °C	Ambient operating temperature - min	-25 °C
		70 °C
	Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30

Communication	
Connection to SmartWire-DT	No
Actuator	
Actuating force	50 N
Actuator color	Red
Actuator diameter	45 mm
Actuator function	Switching function latching Key-release
Contacts	
Force for positive opening - min	0 N
<b>Design verification</b>	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	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 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	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.
10.9.2 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 9.0**

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@ss13-27-37-12-12 [AKF030019])

Colour button         Red           Construction type lens         Round           Diameter cap         mm         45           Hole diameter         mm         22.5           Width opening         mm         0           Height opening         mm         0           Degree of protection (IP)         IP67/IP69K           Degree of protection (NEMA)         4X           Type of button         High           Suitable for illumination         No           With lighting         No	(100.000.000.000.000.000.000.000.000.000		
Diameter cap         mm         45           Hole diameter         mm         22.5           Width opening         mm         0           Height opening         mm         0           Degree of protection (IP)         IP67/IP69K           Degree of protection (NEMA)         4X           Type of button         High           Suitable for illumination         No	Colour button		Red
Hole diameter mm 22.5  Width opening mm 0  Height opening mm 0  Degree of protection (IP) IP67/IP69K  Degree of protection (NEMA) 4X  Type of button High  Suitable for illumination No	Construction type lens		Round
Width opening mm 0 Height opening mm 0 Degree of protection (IP) Degree of protection (NEMA) Type of button 4X Suitable for illumination 7NO	Diameter cap	mm	45
Height opening mm 0  Degree of protection (IP) IP67/IP69K  Degree of protection (NEMA) 4X  Type of button High  Suitable for illumination No	Hole diameter	mm	22.5
Degree of protection (IP)  Degree of protection (NEMA)  Type of button  Suitable for illumination  IP67/IP69K  4X  High  No	Width opening	mm	0
Degree of protection (NEMA) 4X Type of button High Suitable for illumination No	Height opening	mm	0
Type of button High Suitable for illumination No	Degree of protection (IP)		IP67/IP69K
Suitable for illumination No	Degree of protection (NEMA)		4X
	Type of button		High
With lighting No	Suitable for illumination		No
	With lighting		No
Supply voltage lamp V 0	Supply voltage lamp	V	0

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	Key-release