## **DATASHEET - M22S-D-S**



## Pushbutton, RMQ-Titan, Flat, momentary, black, Blank, Bezel: black

Part no. M22S-D-S 216591

General specifications	
Product name	Eaton Moeller® series M22 Pushbutton
Part no.	M22S-D-S
EAN	4015082165918
Product Length/Depth	30 millimetre
Product height	30 millimetre
Product width	30 millimetre
Product weight	0.009 kilogram
Compliances	CE Marked
Certifications	LR DNV GL UL Category Control No.: NKCR IEC/EN 60947-5 CSA Class No.: 3211-03 IEC/EN 60947 CSA CSA-C22.2 No. 94-91 CSA-C22.2 No. 14-05 UL File No.: E29184 VDE 0660 UL CE CSA File No.: 012528 VDE UL 508 CSA Std. C22.2 No. 14-05 CSA Std. C22.2 No. 94-91 EN 60947-5 IEC 60947-5
Product Tradename	M22
Product Type	Pushbutton
Product Sub Type	None
Features & Functions	
Bezel color	Black
Bezel material	Plastic
Design	Classical Flat
Fitted with:	Front ring
Inscription	Blank
General information	
Degree of protection	NEMA 4X IP69K NEMA 13 IP66 NEMA 12 NEMA 3R IP67
Degree of protection (front side)	NEMA 4X IP67/IP69K
Lifespan, mechanical	5,000,000 Operations
Opening diameter	22.5 mm
Operating frequency	3600 Operations/h
Product category	RMQ-Titan
Size	Front dimensions: 22 x 22 mm
Туре	Pushbutton actuator
Ambient conditions, mechanical	
Mounting position	As required
Shock resistance	30 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 coperating temperature - min Ambient coperating - min Comercion SmartWire-DT  Actuation Comercion SmartWire-DT  Actuation Actuation Actuation Actuation Actuation Actuation calor Actuation calor Actuation calor Actuation calor Actuation calor Actuation calor Actuation Actuation Design verification  Design verification  Design verification  Design verification  Design verification  Equipment lead dissipation, current-dependent Pivid  Design verification  Design verification of product design verification of verifi		
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Ambient storage temperature - min Ambient storage temperature - max    Bir C	Ambient operating temperature - min	-25 °C
Ambient storage temperature - max  Climatic proofing  Commerciation  Connection to SmartWire-DT  Actuator  Actuator of the Commerciations  Actuator of the Commerciations  Actuator of the Commerciations  Actuator of the Commerciations  Shart Scheduler  Actuator force  Black  Momentary  Spring-return  ON  Design verification  Beginnent hand dissipation, current-dependent Proid  OW  Heat dissipation per pote, current-dependent Proid  Astero generation acturent for specified heat dissipation (ii)  Astero per pote, current-dependent Proid  OW  Static heat dissipation, non-current-dependent Proid  OX  Static heat dissipation, non-current-dependent Proid  OX  Static heat dissipation of resistance or insulating materials to normal heat  10.2.3   Verification of resistance or insulating materials to normal heat  10.2.3   Verification of resistance or insulating materials to normal heat  10.2.3   Sensit of insulam. to abnormal heat/five by internal elect. effects  10.2.4   Sensitance to other-violet (UV) radiation  10.2.5   Lating the contine of sensitance or insulating materials to normal heat  10.2.5   Lating the contine of sensitance or insulating materials to normal heat  10.2.6   Sensitance to other-violet (UV) radiation  10.2.7   Sensitance to other-violet (UV) radiation  10.2.8   Design of princetion of assemblies  Does not apply, since the entire switchpear needs to be evaluated.  Meets the product standard's requirements.  10.2   Possitance of assemblies  Does not apply, since the entire switchpear needs to be evaluated.  Meets the product standard's requirements.  10.2   Possitance of switching device and components  10.3   Degree of princetion of assemblies  Does not apply, since the entire switchpear needs to be evaluated.  Meets the product standard's requirements.  10.4   Possitance of switching device and components  10.5   Possitance of switching device and com	Ambient operating temperature - max	70 °C
Communication Communication Commercion to Smart/Wire-DT  Actuator Actuator process Actuator with SWD-HMD connections  Black Actuator process  Force for positive opening - min  Design verification  Build process  Force for positive opening - min  Design verification  Equipment heat dissipation, current-dependent Pyol  Heat dissipation capacity Pities  OW  Heat dissipation capacity Pities  OW  State designation, on-current-dependent Pyol  OW  Rated openational current for specified heat dissipation (n)  State heat dissipation, on-current-dependent Pyol  OW  Rated openational current for specified heat dissipation (n)  State heat dissipation, on-current-dependent Pyol  OW  Rated openational current for specified heat dissipation (n)  10.23 Verification of resistance of mulation gnaterials to normal heat  10.23.1 Verification of resistance of insulation gnaterials to normal heat  10.23.2 Verification of resistance of insulation gnaterials to normal heat  10.23.3 Resist of insul, mat to abnormal heat/fire by internal elect, affects  Meets the product standard's requirements.  10.2.5 Lifting  One not apply, since the entire switchgear needs to be evaluated.  10.2.5 Mechanical impact  10.2.6 Degree of protection of assemblies  Meets the product standard's requirements.  10.6 Protection against electric about on a subply, since the entire switchgear needs to be evaluated.  10.7 Internal electrical circuits and connections  In the panel builder's responsibility.  10.8 In panel builder's responsibility.  10.9 Internal electrical circuits and connections  In the panel builder's responsibility.  10.10 Temperature rise  Not applicable.  10.10 Mechanical function  The device meets the requirements, provided the information in the instruction observed.  10.10 Mechanical function  The device meets the requirements in information in the instruction observed.	Ambient storage temperature - min	-40 °C
Damp heat, constant, to IEC 60006-2-78  Communication  Connection to SmartWire-DT  Actuator  Actuator face  Black  Actuator face  Actuator face  Actuator face  Actuator face  Actuator face  Black  Actuator face  Actuator face  Black  Actuator face  Actuator face  Actuator face  Actuator face  Black  Actuator face  Actua	Ambient storage temperature - max	80 °C
Connection to SmartWire-UT  Actustor  Actustor   S N    Actustor color   Black    Actustor number   S N    Dosign verification    Equipment heat dissipation, current-dependent Pvid   D W    Heat dissipation capacity Pelas   D W    Reat dissipation, uncurrent-dependent Pvid   D W    Reat dissipation current for specified heat dissipation (lio)   D A    Static heat dissipation, uncurrent-dependent Pvid   D W    Reat dissipation current for specified heat dissipation (lio)   D A    Static heat dissipation, uncurrent-dependent Pvid   D W    Reat dissipation current for specified heat dissipation (lio)   D A    Static heat dissipation, uncurrent-dependent Pvid   D W    Reat dissipation of resistance   D W    Reat dissipation of resistance   D W    Reat dissipation of resistance   D W    Reat dissipation of resistance of insuliating materials to normal heat   Meets the product standard's requirements.  10.2.31 Verification of fremal stability of enclosures   Meets the product standard's requirements.  10.2.4 Resistance to ultra-violet (IVI) radiation   Please enquire    10.2.5 Lifting   Does not apply, since the entire switchgara needs to be evaluated.  10.2.6 Incorporation of switchgara needs to be evaluated.  10.2.7 Inscriptions   Does not apply, since the entire switchgara needs to be evaluated.  10.3 Peace for product standard's requirements.  10.3 Degree of protection of assemblies   Does not apply, since the entire switchgara needs to be evaluated.  10.4 Clearances and creepage distances   Does not apply, since the entire switchgara needs to be evaluated.  10.5 Protection against electric shock   Does not apply, since the entire switchgara needs to be evaluated.  10.6 Incorporation	Climatic proofing	
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Actuator function  Contacts  Force for positive opening - min  Design verification  Equipment heat dissipation, current-dependent Pvid  Heat dissipation per pole, current-dependent Pvid  Heat dissipation per pole, current-dependent Pvid  Rated operational current for specified heat dissipation (In)  Static heat dissipation, non-current-dependent Pvid  All 22 Corrosion resistance  10.2.3 Verification of thermal stability of enclosures  10.2.3 Verification of resistance of insulating materials to normal heat  10.2.3.2 Resistance to ultra-violet (IVI) radiation  10.2.3 Resistance to ultra-violet (IVI) radiation  10.2.5 Lifting  Does not apply, since the entire switchgear needs to be evaluated.  10.2.6 Mechanical impact  10.2.7 Inscriptions  Meets the product standard's requirements.  10.2.8 Deep not apply, since the entire switchgear needs to be evaluated.  10.4 Clearances and creepage distances  10.5 Protoction against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 All Stating of enclosures made of insulating material  10.9 All Stating of enclosures made of insulating material  10.1 Time panel builder's responsibility.  10.2 Stating of enclosures made of insulating material  10.1 Time panel builder's responsibility.  10.2 Stating of enclosures made of insulating material  10.1 Time panel builder's responsibility.  10.2 Stating of enclosures made of insulating material  10.1 Time panel builder's responsibility.  10.2 Stating of enclosures made of insulating material  10.3 Light panel builder's responsibility.  10.4 Team panel builder's responsibility.  10.5 The panel builder's responsibility.  10.6 The panel builder's responsibility.  10.7 Time panel builder's responsibility.  10.8 The panel builder's responsibility. The specifications for the switchgear must be observed.  10.1 Mechanical function  The device meets the requirements, provided the information in the instruction	Actuating force	5 N
Force for positive opening - min    Design verification	Actuator color	Black
Poscign verification  Equipment heat dissipation, current-dependent Pvid 0W Heat dissipation capacity Pfiles 0W Heat dissipation capacity Pfiles 0W Heat dissipation capacity Pfiles 0W Heat dissipation per pole, current-dependent Pvid 0W Static heat dissipation, per pole, current-dependent Pvid 0W  10.22 Corrosion resistance 10.23.1 Verification of themsel stability of enclosures 0W 10.22 Corrosion resistance 10.23.2 Verification of resistance of insulating materials to normal heat 10.23.3 Resist of insul. mat. to abnormal heat 10.24.2 Verification of resistance of ultra-violet (UV) radiation 10.24.2 Resistance to ultra-violet (UV) radiation 10.25 Lifting 0Does not apply, since the entire switchgear needs to be evaluated. 10.27.1 Inscriptions 10.3 Degree of protection of assemblies 0Does not apply, since the entire switchgear needs to be evaluated. 10.4 Desentances and crepage distances 10.4 Desentances and crepage distances 10.5 Protection against electric shock 0Does not apply, since the entire switchgear needs to be evaluated. 10.5 Protection against electric shock 0Does not apply, since the entire switchgear needs to be evaluated. 10.5 Protection against electric stock 0Does not apply, since the entire switchgear needs to be evaluated. 10.6 Incorporation of switching devices and components 0Does not apply, since the entire switchgear needs to be evaluated. 10.7 Internal electrical circuits and connections 1s the panel builder's responsibility. 10.8 Connections for external conductors 1s the panel builder's responsibility. 10.9 Power-frequency electric strength 1s the panel builder's responsibility. 10.9 A Testing of enclosures made of insulating material 1s the panel builder's responsibility. 1s specifications for the switchgear must be observed. 10.13 Mechanical function 4 device meets the requirements, provided the information in the instruction 10.13 Mechanical function 4 device meets the requirements, provided the information in the instruction 10.13 Mechanical function 4 device meets the requirements, p	Actuator function	·
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10.2.3 2 Verification of resistance of insulating materials to normal heat 10.2.3 3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function  Meets the product standard's requirements. 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 1 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 1 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 1 Is the device meets the requirements, provided the information in the instruction	10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects  10.2.4 Resistance to ultra-violet (UV) radiation  10.2.5 Lifting  10.2.6 Mechanical impact  10.2.7 Inscriptions  10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  The device meets the requirements, provided the information in the instruction	10.2.3.1 Verification of thermal stability of enclosures	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.  10.10 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.	10.2.3.2 Verification of resistance of insulating materials to normal heat	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.  10.9.2 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	10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
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	10.13 Mechanical function	

## **Technical data ETIM 9.0**

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@ss13-27-37-12-10 [AKF028019])

[AKFUZ0019])		
Colour button		Black
Number of command positions		1
Construction type lens		Round
Hole diameter	mm	22.5
Width opening	mm	0

Height opening	m	nm	0
Type of button			Flat
Suitable for illumination			No
With protective cover			No
Labelled			No
Switching function latching			No
Spring-return			Yes
With front ring			Yes
Material front ring			Plastic
Colour front ring			Black
Degree of protection (IP), front side			IP67/IP69K
Degree of protection (NEMA), front side			4X