## DATASHEET - M22-I3-M2

Housing, Pushbutton actuators, Indicator lights, Enclosure, momentary, 2 NC, 2 N/O, Screw connection, Number of locations 2, Grey, inscribed, Bezel: titanium



Part no.	M22-I3-M2
	216533
EL Number	4355304
(Norway)	

## **General specifications**

Bazel color       Tinnium         Color       Light gray         Design       Enclosure         Enclosure color       Gray         Enclosure material       Fray         Inscription       Inscribed         Inscription       Inscribed         Number of locations       2 x M20 (cable entry knockouts at the base) 2 x M25/20 (cable entry knockouts at the side)         RAL-number       Vinite         Reserved for protection       PF3//PE8K NEMA X, 13         Degree of protection       PF3//PE8K NOUC category         Product category       Size         Type       Foot dimensions: 153 x 80 mm         Type       Pestioner of incloring frequency         Product category       Foot dimensions: 153 x 80 mm         Size       Foot dimensions: 153 x 80 mm         Type       Pestioner of tocation         Mounting position       Sock resistance	General specifications	
FAI   6000000000000000000000000000000000000	Product name	Eaton Moeller® series M22 Housing
Preduct Langth Outph   Bin allimetre     Preduct theigh   It millimetre     Preduct theigh   It millimetre     Preduct webh   It millimetre     Cardiculances   Contact Manifecture     Preduct Topecam   Contact Manifecture     Preduct Topecam   Max     Desci Color   Max     Color   Itanian     Color   Itanian     Color   Itanian     Color   Itanian     Color   Itanian	Part no.	M22-I3-M2
Product height   Nullimetra     Product widh   IS millimetra     Product widh   IS millimetra     Compliances   2017 Migram     Compliances   UI 508     Confinitations   UI 508     Confinitations   UI 508     Confinitations   UI 508     Product Trademanta   UI 508     Product Trademanta   Confinitations     Basel color   Confinitations <	EAN	4015082165338
Product worth   ISM initiative     Product worth   GM 2017 kingsm     Coorpliance   GM 2017 kingsm     Catflications   III SM 2000 michained Manufactures     Product Trademame   Mode     Product Trademame   Mode <t< td=""><td>Product Length/Depth</td><td>80 millimetre</td></t<>	Product Length/Depth	80 millimetre
Product weight   0377 Alogram     Contains   Contain Multicuture     Catilications   US 8     Product Tradename   Maximp     Product Tradename<	Product height	70 millimetre
Compliance     Contact Manufacturer       Confications     U. USS       Confications     U. USS       Viel Oddo     U. USS       Sch Tin No: NCCR     U. Usso       Product Tradename     Mozing       Product Tradename     Mouning       Product Tradename     None       Product Sub Type     Tradename       Product Sub Type     T	Product width	153 millimetre
Product Tradename     MZ       Product Tradename     Max	Product weight	0.317 kilogram
Poduct Tradename     M2       Poduct Tradena	Compliances	Contact Manufacturer
Product Type   Housing     Product Sub Type   None     Catalog Notes   S5 - 244 V.AC     Catalog Notes   S5 - 244 V.AC     Features & Functions   S5 - 244 V.AC     Bezel color   S5 - 244 V.AC     Color   Image: Color State V.AC     Color   Light gray     Design   Light gray     Enclosure color   Golor     Enclosure color   Golor     Enclosure material   Forduct State Sta	Certifications	IEC/EN 60947-5 VDE 0660 UL File No.: E29184 CE CSA File No.: 012528 CSA-C22.2 No. 14-05 CSA Class No.: 3211-03 UL IEC/EN 60947 CSA CSA-C22.2 No. 94-91
Product Sub Type       None         Catalog Notes       S5: 284 VAC Contracts with safely function, by positive opening to IEC/EN 60847-5-1 LED element         Features & Functions       Image: Contracts with safely function, by positive opening to IEC/EN 60847-5-1 LED element         Bazel color       Image: Contracts with safely function, by positive opening to IEC/EN 60847-5-1 LED element         Bazel color       Image: Contracts with safely function, by positive opening to IEC/EN 60847-5-1 LED element         Design       Image: Contracts with safely function, by positive opening to IEC/EN 60847-5-1 LED element         Design       Image: Contracts with safely function, by positive opening to IEC/EN 60847-5-1 LED element         Image: Contracts with safely function, by positive opening to IEC/EN 60847-5-1 LED element       Image: Contracts with safely function, by positive opening to IEC/EN 600847-5-1 LED element         Inscription       Image: Contracts with safely function, by positive opening to IEC/EN 600847-27         Inscription       Image: Contracts with safely function, by positive opening to IEC/EN 600847-27         Image: Contracts with safely function, by positive opening to IEC/EN 600847-27       Image: Contracts with safely function, becoming to IEC/EN 600847-27	Product Tradename	M22
Catalog Notes   85-264 VAC Contracts with safety function, by positive opening to IEC/EN 60947-51 Contracts with safety function, by positive opening to IEC/EN 60947-51 Contracts with safety function, by positive opening to IEC/EN 60947-51     Features & Functions   Itanium     Basel color   Light gray     Color   Light gray     Design   Enclosure     Enclosure material   Itanium     Inscription   Plastic     Knockots   X M20 (cable entry knockouts at the base)     Light color   Vinite     Number of locations   Itanium     Basel of protection   Vinite     Degree of protection   Stook with a state functions, mechanical     Product category   Stook with a state function store in the state functin store in the state functin store in the state function	Product Type	Housing
Contracts with safery function, by positive opening to IEC/EN 60847-5-1         Features & Functions       Contracts with safery function, by positive opening to IEC/EN 60847-5-1         Bezel color       Contracts with safery function, by positive opening to IEC/EN 60847-5-1         Bezel color       Contracts with safery function, by positive opening to IEC/EN 60847-5-1         Contracts with safery function, by positive opening to IEC/EN 60847-5-1       Contracts with safery function, by positive opening to IEC/EN 60847-5-1         Bezel color       Contracts with safery function, by positive opening to IEC/EN 60847-5-1         Contracts with safery function, by positive opening to IEC/EN 60847-5-1       Contracts with safery function, by positive opening to IEC/EN 60847-5-1         Contracts with safery function, by positive opening to IEC/EN 600847-5-1       Contracts with safery function, by positive opening to IEC/EN 600847-5-1         Description       Contracts with safery function, by positive opening to IEC/EN 600847-5-1       Contracts with safery function, by positive opening to IEC/EN 600847-5-1         Inscription       Contracts with safery function, by positive opening to IEC/EN 600847-5-1       Contracts with safery function, by positive opening to IEC/EN 600847-5-1         Inscription       Contracts with safery function, by positive opening to IEC/EN 600847-5-1       Contracts with safery function, by positive opening to IEC/EN 600847-5-1         Inscription       Contracts with safery function, by positive opening	Product Sub Type	None
Bazel color       Tinnium         Color       Light gray         Design       Enclosure         Enclosure color       Gray         Enclosure material       Fray         Inscription       Inscribed         Inscription       Inscribed         Number of locations       2 x M20 (cable entry knockouts at the base) 2 x M25/20 (cable entry knockouts at the side)         RAL-number       Vinite         Reserved for protection       PF3//PE8K NEMA X, 13         Degree of protection       PF3//PE8K NOUC category         Product category       Size         Type       Foot dimensions: 153 x 80 mm         Type       Pestioner of incloring frequency         Product category       Foot dimensions: 153 x 80 mm         Size       Foot dimensions: 153 x 80 mm         Type       Pestioner of tocation         Mounting position       Sock resistance	Catalog Notes	Contacts with safety function, by positive opening to IEC/EN 60947-5-1
Color     Light gray       Design     Enclosure       Enclosure color     Gray       Enclosure material     Plastic       Inscription     Inscribed       Inscription     Set M20 (cable entry knockouts at the base)       Light color     White       Number of locations     Vhite       RAL-number     7035       Degree of protection     Solon Operations/h NEMA 4X, 13       Lifespan     5000,000 mechanical Operations       Operating frequency     Front dimensions: 153 x80 mm       Size     Front dimension: 153 x80 mm       Type     Front dimension: 153 x80 mm       Number of conditions, mechanical     Front dimension: 153 x80 mm       Size     Front dimension: 153 x80 mm       Type     Mounting position     A required       Mounting position     A required	Features & Functions	
Design     Enclosure       Enclosure color     Gray       Enclosure material     Plastic       Inscription     Inscribed       Knockouts     2 X M20 (cable entry knockouts at the base)       Light color     White       Number of locations     2       RAL-number     7035       Degree of protection     F07/P60K       Operating frequency     5000,000 mechanical Operations/h       Operating frequency     6000 perations/h       Size     Fond dimensions: 153 x 80 mm       Type     Indicator lights       Ambient conditions, mechanical     Indicator lights       Mounting position     A required       Mounting position     A required	Bezel color	Titanium
Enclosure color     Gray       Enclosure material     Plastic       Inscription     Inscribed       Knockouts     Z M20 (cable entry knockouts at the base)       Light color     White       Number of locations     Z       RAL-number     2       Degree of protection     F67/P68K       Operating frequency     5000,000 mechanical Operations/h       Operating frequency     6000 porations/h       Product category     Foot dimensions: 153 x 80 mm       Size     Foot dimensions: 153 x 80 mm       Type     Indicator lights       Ambient conditions, mechanical     Foot dimension: 153 x 80 mm       Size     Foot dimension: 153 x 80 mm       Type     Indicator lights       Mounting position     Arequired       Mounting position     Arequired	Color	Light gray
Enclosure material     Plastic       Inscription     Plastic       Inscription     Inscribed       Knockouts     Sx M20 (cable entry knockouts at the base)       Light color     White       Number of locations     V       RAL-number     735       Oegree of protection     Fo///P69K       Operating frequency     5000,000 mechanical Operations/h       Operating frequency     Ford dimensions: 153 x 80 mm       Type     Mounting position       Mounting position     Idicator lights       Mounting position     Keckneide       Mounting position     Keckneide	Design	Enclosure
Inscription     Inscribed       Inscription     Inscribed       Knockouts     2 x M20 (cable entry knockouts at the base)       Light color     White       Number of locations     2       RAL-number     7035       Degree of protection     PF7//P69K       Operating frequency     5000,000 mechanical Operations/h       Operating frequency     S000 Operations/h       Fype     Ford dimensions: 153 x 80 mm       Type     Indicator lights Pushbutton actuator       Ambient conditions, mechanical     Arequired       Mounting position     Ar equired       Shock resistance     Mechanical, According to EUC/EN 60068-2-27	Enclosure color	Gray
Knockouts     2 x M20 (cable entry knockouts at the base)       Light color     White       Number of locations     2       RAL-number     7035       Degree of protection     P67/P69K       Lifespan     5,000,000 mechanical Operations/h       Operating frequency     5000 Operations/h       Product category     6000 Degretors: 153 x 80 mm       Size     Front dimensions: 153 x 80 mm       Type     Indicator lights Pushbutton actuator       Ambient conditions, mechanical     As required       Mounting position     As required       Shock resistance     Mechanical, According to EIC/EN 60068-2-27	Enclosure material	Plastic
Light color     White       Number of locations     2       RAL-number     7035       General information     P67//P69K       Degree of protection     5000,000 mechanical Operations       Lifespan     60000 mechanical Operations       Operating frequency     Ford (Imensions: 153 x 80 mm       Product category     Ford (Imensions: 153 x 80 mm       Type     Indicator lights       Ambient conditions, mechanical     Ford (Imensions: 153 x 80 mm       Mounting position     Kate operating the section operation operatioperation operation operation operation operatioperation operation	Inscription	Inscribed
Number of locations     2       RAL-number     7035       General information     P67/P69K       Degree of protection     P67/P69K       Lifespan     5,000,000 mechanical Operations       Operating frequency     5000,000 mechanical Operations/h       Product category     3600 Operations: 153 x 80 mm       Size     Front dimensions: 153 x 80 mm       Type     Indicator lights pushbutton actuator       Ambient conditions, mechanical     As required       Mounting position     As required       Shock resistance     Mechanical, According to IEC/EN 60068-2-27	Knockouts	
RAL-number     7035       General information     P67/P69K       Degree of protection     P67/P69K       Lifespan     5,000,000 mechanical Operations       Operating frequency     5,000,000 mechanical Operations       Product category     64000 Feetions/h       Size     Front dimensions: 153 x 80 mm       Type     Indicator lights Pushbutton actuator       Mounting position     Arequired       Shock resistance     Mechanical, According to EJC/EN 60068-2-27	Light color	White
General information     For an anti-protection     P67//P69K       Degree of protection     P67//P69K       Lifespan     5,000,000 mechanical Operations       Operating frequency     3600 Operations/h       Product category     RMQ-Titan       Size     Front dimensions: 153 x 80 mm       Type     Indicator lights Pushbutton actuator       Mounting position     As required       Shock resistance     Mechanical, According to IEC/EN 60068-2-27	Number of locations	2
Degree of protection     P67/P69K       Lifespan     5,000,000 mechanical Operations       Operating frequency     5,000,000 mechanical Operations       Product category     600 Operations/h       Size     Front dimensions: 153 x 80 mm       Type     Indicator lights Pushbutton actuator       Ambient conditions, mechanical     Mounting position       Shock resistance     Mechanical, According to IEC/EN 60068-2-27	RAL-number	7035
Lifespan     MEMA 4X, 13       Operating frequency     5,000,000 mechanical Operations       Product category     3600 Operations/h       Size     RMQ-Titan       Type     Front dimensions: 153 x 80 mm       Ambient conditions, mechanical     Indicator lights pushbutton actuator       Mounting position     As required       Shock resistance     Mechanical, According to IEC/EN 60068-2-27	General information	
Operating frequency     Image: Sector of the	Degree of protection	
Product category   RMQ-Titan     Size   Font dimensions: 153 x 80 mm     Type   Indicator lights Pushbutton actuator     Ambient conditions, mechanical   As required     Shock resistance   Mechanical, According to IEC/EN 60068-2-27	Lifespan	5,000,000 mechanical Operations
Size   Front dimensions: 153 x 80 mm     Type   Indicator lights Pushbutton actuator     Ambient conditions, mechanical   Arrequired     Mounting position   As required     Shock resistance   Mechanical, According to IEC/EN 60068-2-27	Operating frequency	3600 Operations/h
Type   Indicator lights Pushbutton actuator     Ambient conditions, mechanical   As required     Mounting position   As required     Shock resistance   Mechanical, According to IEC/EN 60068-2-27	Product category	RMQ-Titan
Ambient conditions, mechanical   Pushbutton actuator     Mounting position   As required     Shock resistance   Mechanical, According to IEC/EN 60068-2-27	Size	Front dimensions: 153 x 80 mm
Mounting position   As required     Shock resistance   Mechanical, According to IEC/EN 60068-2-27	Туре	
Shock resistance Mechanical, According to IEC/EN 60068-2-27	Ambient conditions, mechanical	
Shock resistance Mechanical, According to IEC/EN 60068-2-27	Mounting position	As required
	Shock resistance	Mechanical, According to IEC/EN 60068-2-27 30 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms

Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	70 °C
Climatic proofing	Damp heat, constant, to IEC 60068-2-78
	Damp heat, cyclic, to IEC 60068-2-30
Electrical rating	
Rated control supply voltage (Us) at AC, 50 Hz - min	85 V
Rated control supply voltage (Us) at AC, 50 Hz - max	264 V
Rated control supply voltage (Us) at AC, 60 Hz - min	85 V
Rated control supply voltage (Us) at AC, 60 Hz - max	264 V
Rated control supply voltage (Us) at DC - min	0 V
Rated control supply voltage (Us) at DC - max	0 V
Short-circuit rating	
Rated conditional short-circuit current (Iq)	1 kA
Communication	
Connection to SmartWire-DT	No
Connection type	Screw connection
Actuator	
Actuating force	5 N
Actuator color	Red/white/green
Actuator function	Momentary
Actuator travel and actuation force (DIN EN 60947-5-1)	4.8 mm
Knob travel	5.7 mm
Contacts	
Force for positive opening - min	15 N
Number of contacts (change-over contacts)	0
Number of contacts (normally closed contacts)	2
Number of contacts (normally open contacts)	2
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0.11 W
Rated operational current for specified heat dissipation (In)	6 A
Static heat dissipation, non-current-dependent Pvs	1 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	The panel builder is responsible for the temperature rise calculation. Eaton will
	provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.13 Mechanical function

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

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) / Control circuit devices combination in enclosure (EC000225)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Command and alarm device combination in housing (ecl@ss13-27-37-12-16 [AKF034019])				
Number of command positions			3	
Number of push buttons			2	
Number of indicator lights			1	
Number of key switches			0	
Number of selector switches			0	
Number of mushroom-shaped push-buttons			0	
Suitable for emergency stop			No	
Rated control supply voltage AC 50 Hz		V	85 - 264	
Rated control supply voltage AC 60 Hz		V	85 - 264	
Rated control supply voltage DC		V	0 - 0	
Power consumption		W		
Colour housing cover			Grey	
Housing colour			Grey	
Housing material			Plastic	
Number of contacts as normally open contact			2	
Number of contacts as normally closed contact			2	
Number of contacts as change-over contact			0	
Degree of protection (IP)			IP67/IP69K	
Degree of protection (NEMA)			4X, 13	