

Specifications



Photo is representative

Eaton 216524

Eaton Moeller® series M22 Housing, Controlled stop pushbuttons/emergency-stop buttons, Mushroom-shaped, 38 mm, Non-illuminated, Pull-to-release function, 2 NC, Screw connection, Red, Yellow

General specifications

PRODUCT NAME	Eaton Moeller® series M22 emergency stop pushbutton
CATALOG NUMBER	216524
MODEL CODE	M22-PV/KC02/IY
EAN	4015082165246
PRODUCT LENGTH/DEPTH	100 mm
PRODUCT HEIGHT	80 mm
PRODUCT WIDTH	72 mm
PRODUCT WEIGHT	0.194 kg
CERTIFICATIONS	CSA CSA-C22.2 No. 14-05 UL 508 CSA-C22.2 No. 94-91 IEC/EN 60947-5 UL CE UL Category Control No.: NKCR UL File No.: E29184 CSA Class No.: 3211-03 CSA File No.: 012528 IEC/EN 60947 VDE 0660



Powering Business Worldwide

Actuator

ACTUATING FORCE	50 N
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ACTUATOR COLOR	Red
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ACTUATOR DIAMETER	38 mm
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ACTUATOR FUNCTION	Pull-to-release
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ACTUATOR TRAVEL AND ACTUATION FORCE (DIN EN 60947-5-1)	4.8 mm
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DESIGN	Mushroom-shaped
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ILLUMINATION	Non-illuminated
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KNOB TRAVEL	5.7 mm
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Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	70 °C
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AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
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CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
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Contacts

FORCE FOR POSITIVE OPENING - MIN	30 N
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NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
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NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	2
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NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	0
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Communication

CONNECTION TO SMARTWIRE-DT	No
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Design verification

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.
10.12 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.
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	Does not apply, since the

Electrical rating

RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX 500 V

RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN 115 V

RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX 500 V

RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN 115 V

RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX 220 V

RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN 24 V

AGAINST ELECTRIC SHOCK	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.
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	0 W

Features & functions

DESIGN	Mushroom-shaped
ENCLOSURE COLOR	Yellow
ENCLOSURE MATERIAL	Plastic

General information

DEGREE OF PROTECTION	IP Other NEMA 4X, 13
LIFESPAN	100,000 mechanical Operations
MOUNTING POSITION	As required
OPERATING FREQUENCY	600 Operations/h
PRODUCT CATEGORY	RMQ-Titan
SIZE	Front dimensions: 35 mm
SUITABLE FOR	Emergency stop
TYPE	Controlled stop pushbutton/emergency-stop button

Short-circuit rating

**RATED CONDITIONAL
SHORT-CIRCUIT CURRENT (IQ)** 1 kA

- Housing

Resources

CATALOGUES

[eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf](#)

CERTIFICATION REPORTS

[000Z425](#)

DECLARATIONS OF CONFORMITY

[eaton-emergency-stop-emergency-switching-off-pushbutton-declaration-of-conformity-eu251534en.pdf](#)

[eaton-emergency-stop-emergency-switching-off-pushbutton-declaration-of-conformity-uk251132en.pdf](#)

DRAWINGS

[eaton-operating-m22-housing-dimensions.eps](#)

[eaton-operating-emergency-m22-dimensions.eps](#)

[eaton-general-m22-symbol.eps](#)

[eaton-operating-button-symbol-008.eps](#)

[eaton-general-totally-insulated-t0-main-switch-symbol.eps](#)

[eaton-operating-button-symbol-006.eps](#)

[eaton-general-approval-m22-symbol.eps](#)

[eaton-general-m22-standards.eps](#)

[000Z051](#)

ECAD MODEL

[ETN.M22-PV_KC02_IY](#)

INSTALLATION INSTRUCTIONS

[IL04716005Z.pdf](#)

[IL04716003Z](#)

MCAD MODEL

[eaton-enclosure-mcad-drawings-bg-pv-aufbaug.dwg](#)

[DA-CS-bg_pv_aufbaug](#)

PEP ECO-PASSPORT	eaton-pushbutton-control-stations-pep-eato-00331-v0101-en.pdf
WIRING DIAGRAMS	eaton-operating-contact-m22-housing-wiring-diagram-002.eps

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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