

# 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

<b>PRODUCT NAME</b>	Eaton Moeller® series M22 emergency stop pushbutton
<b>CATALOG NUMBER</b>	216524
<b>MODEL CODE</b>	M22-PV/KC02/IY
<b>EAN</b>	4015082165246
<b>PRODUCT LENGTH/DEPTH</b>	100 mm
<b>PRODUCT HEIGHT</b>	80 mm
<b>PRODUCT WIDTH</b>	72 mm
<b>PRODUCT WEIGHT</b>	0.194 kg
<b>CERTIFICATIONS</b>	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
<b>GLOBAL CATALOG</b>	216524
<b>PRODUCT TYPE</b>	Emergency stop pushbutton



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## Product specifications

<b>TYPE</b>	<ul style="list-style-type: none"> <li>Controlled stop pushbutton/emergency-stop button</li> <li>Housing</li> </ul>
<b>ACTUATOR COLOR</b>	Red
<b>ACTUATOR FUNCTION</b>	Pull-to-release
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Please enquire
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be

## Resources

CATALOGS	<a href="#">eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf</a>
CERTIFICATION REPORTS	<a href="#">000Z425</a>
DECLARATIONS OF CONFORMITY	<a href="#">eaton-emergency-stop-emergency-switching-off-pushbutton-declaration-of-conformity-eu251534en.pdf</a> <a href="#">eaton-emergency-stop-emergency-switching-off-pushbutton-declaration-of-conformity-uk251132en.pdf</a>
DRAWINGS	<a href="#">eaton-operating-m22-housing-dimensions.eps</a> <a href="#">eaton-operating-emergency-m22-dimensions.eps</a> <a href="#">eaton-general-totally-insulated-t0-main-switch-symbol.eps</a> <a href="#">eaton-general-m22-standards.eps</a> <a href="#">eaton-general-approval-m22-symbol.eps</a> <a href="#">eaton-operating-button-symbol-008.eps</a> <a href="#">eaton-general-m22-symbol.eps</a> <a href="#">eaton-operating-button-symbol-006.eps</a> <a href="#">000Z051</a>
ECAD MODEL	<a href="#">ETN.M22-PV_KC02_IY</a>
INSTALLATION INSTRUCTIONS	<a href="#">IL04716005Z.pdf</a> <a href="#">IL04716003Z</a>
MCAD MODEL	<a href="#">eaton-enclosure-mcad-drawings-bg-pv-aufbaug.dwg</a> <a href="#">DA-CS-bg_pv_aufbaug</a>
PEP ECO-PASSPORT	<a href="#">eaton-pushbutton-control-stations-pep-eato-00331-v0101-en.pdf</a>

	evaluated.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>OPERATING FREQUENCY</b>	600 Operations/h
<b>CLIMATIC PROOFING</b>	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
<b>CONNECTION TO SMARTWIRE-DT</b>	No
<b>ENCLOSURE MATERIAL</b>	Plastic
<b>ACTUATING FORCE</b>	50 N
<b>ACTUATOR DIAMETER</b>	38 mm
<b>ACTUATOR TRAVEL AND ACTUATION FORCE (DIN EN 60947-5-1)</b>	4.8 mm
<b>AMBIENT OPERATING</b>	70 °C

SPECIFICATIONS AND DATASHEETS

[Eaton Specification Sheet - 216524](#)

WIRING DIAGRAMS

[eaton-operating-contact-m22-housing-wiring-diagram-002.eps](#)

<b>TEMPERATURE - MAX</b>	
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	
	0 W
<b>FORCE FOR POSITIVE OPENING - MIN</b>	30 N
<b>HEAT DISSIPATION CAPACITY PDISS</b>	
	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	
	0.11 W
<b>KNOB TRAVEL</b>	5.7 mm
<b>NUMBER OF BUTTONS (MUSHROOM SHAPE)</b>	1
<b>NUMBER OF COMMAND POSITIONS</b>	1
<b>NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)</b>	0
<b>NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)</b>	2
<b>NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)</b>	0
<b>NUMBER OF KEY SWITCHES</b>	0
<b>NUMBER OF PILOT LIGHTS</b>	0
<b>NUMBER OF PUSHBUTTONS</b>	0
<b>ENCLOSURE COLOR</b>	Yellow
<b>ILLUMINATION</b>	Non-illuminated
<b>NUMBER OF SWITCHES (SELECTOR)</b>	0
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>	
	500 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>	
	115 V

<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b>	500 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b>	115 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX</b>	220 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN</b>	24 V
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	6 A
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	0 W
<b>PRODUCT CATEGORY</b>	RMQ-Titan
<b>SIZE</b>	Front dimensions: 35 mm
<b>DESIGN</b>	Mushroom-shaped
<b>MOUNTING POSITION</b>	As required
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>	1 kA
<b>CONNECTION TYPE</b>	Screw connection
<b>DEGREE OF PROTECTION</b>	IP Other NEMA 4X, 13
<b>LIFESPAN</b>	100,000 mechanical Operations
<b>SHOCK RESISTANCE</b>	50 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms Mechanical, According to IEC/EN 60068-2-27
<b>SUITABLE FOR</b>	Emergency stop
<b>ENCLOSURE COVER COLOR</b>	Yellow

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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