

Eaton 216503

Catalog Number: 216503

Eaton Moeller® series M22 Assembly of contact element with screw terminals and fixing adapter, 1 NC M22-AK01



General specifications

Product Name	Catalog Number
Eaton Moeller® series M22 Accessory	216503
Contact element	Model Code
	M22-AK01
EAN	Product Length/Depth
4015082165031	35 mm
Product Height	Product Width
30 mm	40 mm
Product Weight	Certifications
0.014 kg	UL
	CSA
	CSA-C22.2 No. 94-91
	IEC/EN 60947-5
	UL Category Control No.: NKCR
	CE
	IEC 60947-5-1
	UL 508
	CSA-C22.2 No. 14-05
	UL File No.: E29184
	CSA Class No.: 3211-03
	CSA File No.: 012528

Catalog Notes

Contacts with safety function, by positive opening to IEC/EN 60947-5-1

Product specifications

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

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.

Resources

Catalogs

[eaton-rmq-titan-brochure-br047004en-en-us.pdf](#)

[Flip catalog - Product Range Catalog - Command and indication](#)

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

Certification reports

[000Z425](#)

Declarations of conformity

[DA-DC-00004971.pdf](#)

[DA-DC-00004180.pdf](#)

[DA-DC-00004975.pdf](#)

[DA-DC-00004176.pdf](#)

[DA-DC-00004135.pdf](#)

[DA-DC-00004157.pdf](#)

[DA-DC-00004134.pdf](#)

[DA-DC-00004141.pdf](#)

Drawings

[eaton-operating-actuation-m22-led-element-dimensions.eps](#)

[eaton-general-standards-000Z425.jpg](#)

[eaton-operating-m22-contact-element-3d-drawing-006.eps](#)

[eaton-operating-devices-adapter-flow-diagram-003.eps](#)

[eaton-operating-adapter-m22-contact-element-flow-diagram-002.eps](#)

eCAD model

[ETN.M22-AK01](#)

Installation instructions

[IL04716002Z](#)

Installation videos

[RMQ Flat Design](#)

mCAD model

[DA-CS-bg_001](#)

[DA-CD-bg_001](#)

Multimedia

[MCI MultiColor Light Indicator RMQ compact solution](#)

[RMQ small E-Stop emergency-stop button](#)

[MCI Multicolor Light Indicator M22 with SmartWire-DT](#)

[easyE4 SmartWire-DT module with Remote Touch Display and RMQ](#)

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.

Electric connection type

Screw connection

Operating frequency

3600 Operations/h

Pollution degree

3

Climatic proofing

Damp heat, cyclic, to IEC 60068-2-30

Damp heat, constant, to IEC 60068-2-78

Actuating force - max

5 N

Actuator travel and actuation force (DIN EN 60947-5-1)

4.8 mm

Ambient operating temperature - max

70 °C

Ambient operating temperature - min

-25 °C

Ambient storage temperature - max

85 °C

Ambient storage temperature - min

-25 °C

[multi color indicator](#)

Sales notes

[eaton-control circuit-devices rmq-titan-fl144090en-en-us.pdf](#)

[eaton-rmq-flat-enclosure-flyer-fl047003en-en-us.pdf](#)

[eaton-rmq-small-e-stop-flyer-fl047006en-en-us.pdf](#)

[eaton-rmq-mci-multi-color-light-indicator-flyer-fl047005en-en-us.pdf](#)

Specifications and datasheets

[Eaton Specification Sheet - 216503](#)

System overview

[Pilot devices - selection aid](#)

Wiring diagrams

[eaton-operating-contact-m22-contact-element-wiring-diagram-009.eps](#)

Equipment heat dissipation, current-dependent P_{vid}

0 W

Force for positive opening - min

15 N

Heat dissipation capacity P_{diss}

0 W

Heat dissipation per pole, current-dependent P_{vid}

0.11 W

Knob travel

5.7 mm

Number of contacts (change-over contacts)

0

Number of contacts (normally closed contacts)

1

Number of contacts (normally open contacts)

0

Number of switches (fault signal)

0

Connection to SmartWire-DT

No

Rated impulse withstand voltage (U_{imp})

6000 V AC

Rated conditional short-circuit current (I_q)

1 kA

Connection type

Front fixing

Screw connection

Mounting method

Front fastening

Overvoltage category

III

Control circuit reliability

1 failure per 10,000,000 switching operations (Statistically determined, at 24 V DC/5 mA)

1 failure per 5,000,000 switching operations (statistically determined, at 5 V DC/1 mA)

Degree of protection

IP20

Model

Top mounting

Lamp holder

None

Lifespan, electrical

700,000 Operations (at 230 V, AC-15, 3 A)

1,600,000 Operations (at 230 V, 0.5 A)

1,200,000 Operations (at 12 V, DC-13, 2.8 A)

1,000,000 Operations (at 230 V, AC-15, 1 A)

Terminal capacity (stranded)

0.5 - 2.5 mm²

Lifespan, mechanical

5,000,000 Operations

Short-circuit protection

PKZM0-10/FAZ-B6/1, Contacts, Max. short-circuit protective device, Fuseless

Static heat dissipation, non-current-dependent P_{vs}

0 W

Rated operational current (I_e) at DC-13, 500 V

0.1 A

Short-circuit protection rating

Max. 10 A gG/gL, Fuse, Contacts

Rated insulation voltage (U_i)

500 V

Rated operational current (I_e) at AC-15, 115 V

6 A

Rated operational current (I_e) at AC-15, 220 V, 230 V, 240 V

6 A

Rated operational current (I_e) at AC-15, 380 V, 400 V, 415 V

4 A

Rated operational current (I_e) at AC-15, 500 V

2 A

Rated operational current (I_e) at DC-13, 110 V

0.8 A

Rated operational current (I_e) at DC-13, 220 V, 230 V

0.3 A

Rated operational current (I_e) at DC-13, 24 V

3 A

Rated operational current (Ie) at DC-13, 42 V

1.7 A

Rated operational current (Ie) at DC-13, 60 V

1.2 A

Rated operational current for specified heat dissipation (In)

6 A

Terminal capacity (flexible with ferrule)

0.5 - 1.5 mm²

Terminal capacity (solid)

0.75 - 2.5 mm²



Eaton Corporation plc
Eaton House
30 Pembroke Road
Dublin 4, Ireland
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