Specifications



Eaton 180791

Eaton Moeller® series M22 Contact element, Cage Clamp, Push-in, Front fixing, 1 NC, 24 V 1.5 A, 230 V 1.5 A

General specifications	
PRODUCT NAME	Eaton Moeller® series M22 contact element
CATALOG NUMBER	180791
MODEL CODE	M22-FK01
EAN	4015081759606
PRODUCT LENGTH/DEPTH	40.2 mm
PRODUCT HEIGHT	10 mm
PRODUCT WIDTH	14 mm
PRODUCT WEIGHT	0.004 kg
CERTIFICATIONS	UL 508 CSA File No.: 012528 UL File No.: E29184 CSA IEC/EN 60947-5 UL CSA Class No.: 3211-03 CSA-C22.2 No. 94-91 UL Category Control No.: NKCR CE IEC 60947-5-1 CSA-C22.2 No. 14-05
CATALOG NOTES	Contacts with safety function, by positive opening to IEC/EN 60947-5-1

Actuator

ACTUATING FORCE - MAX	4.5 N
KNOB TRAVEL	5.8 mm

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT STORAGE TEMPERATURE - MAX	85 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 Dry heat to IEC 60068-2-2

Communication

CONNECTION TO SMARTWIRE-DT	No

Contacts

FORCE FOR POSITIVE OPENING - MIN	20 N
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	0

Electrical rating

RATED INSULATION VOLTAGE (UI)	250 V
RATED OPERATIONAL CURRENT (IE)	4 A at AC-15, 60 V 2 A at AC-15, 110 V
RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V	1.5 A
RATED OPERATIONAL CURRENT (IE) AT AC-15, 24 V	4 A
RATED OPERATIONAL CURRENT (IE) AT DC-13, 110 V	0.4 A
RATED OPERATIONAL CURRENT (IE) AT DC-13, 220 V, 230 V	0.2 A
RATED OPERATIONAL CURRENT (IE) AT DC-13, 24 V	1.5 A
RATED OPERATIONAL CURRENT (IE) AT DC-13, 60 V	0.8 A

Features & functions

ELECTRIC CONNECTION TYPE	Spring clamp connection

General information

DEGREE OF PROTECTION	IP20
LIFESPAN, MECHANICAL	1,000,000 Operations (AC operated)
MODEL	Top mounting
OPERATING FREQUENCY	3600 Operations/h
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V AC

Mounting details

CONNECTION TYPE	Front fixing Cage Clamp Push-in clamp
MOUNTING METHOD	Front fastening

Short-circuit rating

RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	1 kA
SHORT-CIRCUIT PROTECTION	FAZ-B4, Contacts, Max. short-circuit protective device, Fuseless
SHORT-CIRCUIT PROTECTION RATING	Max. 4 A gG/gL, Fuse, Contacts

Terminal capacities

TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (0.25 - 1) mm² Use WAGO Variocrimp 4 crimping tool; please enquire for others
TERMINAL CAPACITY (FLEXIBLE)	2 x (0.25 - 1) mm², without ferrule Insert with tool
TERMINAL CAPACITY (SOLID)	2 x (0.2 - 1.5) mm² 2 x 1 (075 - 1.5) mm², Can be plugged without tools
TERMINAL CAPACITY (SOLID/STRANDED AWG)	2 x (24 - 16)

Resources

CATALOGUES	eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf
CONTROL TRAVEL DIAGRAM	eaton-operating-circuit-m22-contact-element-contact-travel-diagram.eps
DECLARATIONS OF CONFORMITY	eaton-contact-element-declaration-of-conformity-uk260062en.pdf eaton-assembled-contact-element-and-mounting-adapter-declaration-of-conformity-eu260061en.pdf
DRAWINGS	eaton-operating-m22-contact-element-dimensions.eps eaton-operating-m22-contact-element-dimensions-003.eps eaton-operating-m22-contact-element-3d-drawing-004.eps
ECAD MODEL	ETN.180791.edz
INSTALLATION INSTRUCTIONS	IL04716002Z
MCAD MODEL	eaton-contact-blocks-mcad-drawings-m22-fk01.dwg eaton-contact-blocks-mcad-3d-models-m22-fk01.stp
WIRING DIAGRAMS	eaton-operating-contact-m22-contact-element-wiring-diagram-003.eps

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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