

Specifications



Photo is representative



Eaton 045493

Eaton Moeller® series TM Changeover switch, 10 A, center mounting, 3 contact units, Contacts: 6, 60 °, maintained, 1-2, Design number 8222

General specifications

PRODUCT NAME	Eaton Moeller® series TM Changeover switch
CATALOG NUMBER	045493
MODEL CODE	TM-3-8222/EZ
EAN	4015080454939
PRODUCT LENGTH/DEPTH	98 mm
PRODUCT HEIGHT	30 mm
PRODUCT WIDTH	30 mm
PRODUCT WEIGHT	0.053 kg

CERTIFICATIONS

CE
IEC/EN 60947-5-1
UL Category Control No.: NLRV
CSA-C22.2 No. 94
UL report applies to both US and Canada
Certified by UL for use in Canada
CSA
IEC/EN 60947-3
VDE 0660
UL
UL File No.: E36332
CSA-C22.2 No. 14-05
IEC/EN 60947
UL 508



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Actuator

ACTUATOR FUNCTION	Without 0 (Off) position Maintained
ACTUATOR TYPE	Short thumb-grip

Contacts

CONTROL CIRCUIT RELIABILITY	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
NUMBER OF CONTACTS	6

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	50 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78

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	UV resistance only in connection with protective shield.
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.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0.15 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	10 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W

Electrical rating

**RATED OPERATIONAL
CURRENT (IE) AT AC-21,
440 V** 10 A

**RATED OPERATIONAL
POWER AT AC-23A, 400 V,
50 HZ** 3 kW

**RATED OPERATIONAL
POWER AT AC-3, 380/400
V, 50 HZ** 3.3 kW

**RATED OPERATIONAL
VOLTAGE (UE) AT AC -
MAX** 500 V

**RATED UNINTERRUPTED
CURRENT (IU)** 10 A

**UNINTERRUPTED
CURRENT** Rated uninterrupted
current Iu is specified for
max. cross-section.

General information

DEGREE OF PROTECTION IP65

**DEGREE OF PROTECTION
(FRONT SIDE)** IP65
NEMA 12

LIFESPAN, MECHANICAL 1,000,000 Operations

MODEL Reverser

MOUNTING METHOD Center mounting

MOUNTING POSITION As required

**NUMBER OF CONTACT
UNITS** 3

OPERATING FREQUENCY 1200 Operations/h

**OVERVOLTAGE
CATEGORY** III

POLLUTION DEGREE 3

PRODUCT CATEGORY Control switches

**RATED IMPULSE
WITHSTAND VOLTAGE
(UIMP)** 4000 V AC

SUITABLE FOR Front mounting

SWITCHING ANGLE 60 °

TYPE Changeover switch

Short-circuit rating

**SHORT-CIRCUIT
PROTECTION RATING** 10 A gG/gL, Fuse, Contacts

Features & functions

ENCLOSURE MATERIAL Plastic

FITTED WITH: Black thumb grip and
front plate

INSCRIPTION 1-2

NUMBER OF POLES 3

Motor rating

**ASSIGNED MOTOR
POWER AT 115/120 V, 60
HZ, 1-PHASE** 0.33 HP

**ASSIGNED MOTOR
POWER AT 115/120 V, 60
HZ, 3-PHASE** 0.75 HP

**ASSIGNED MOTOR
POWER AT 230/240 V, 60
HZ, 1-PHASE** 0.75 HP

**ASSIGNED MOTOR
POWER AT 230/240 V, 60
HZ, 3-PHASE** 1 HP

**ASSIGNED MOTOR
POWER AT 277 V, 60 HZ,
1-PHASE** 0.75 HP

Switching capacity

**SWITCHING CAPACITY
(AUXILIARY CONTACTS,
GENERAL USE)** 10A, IU, (UL/CSA)

SWITCHING CAPACITY A300 (UL/CSA)

**(AUXILIARY CONTACTS,
PILOT DUTY)****SWITCHING CAPACITY
(MAIN CONTACTS,
GENERAL USE)**10 A, Rated uninterrupted
current max. (UL/CSA)**Terminal capacities**

SCREW SIZE	M2.5, Terminal screw
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x 1.0 mm ² , ferrules to DIN 46228 2 x 1.0 mm ² , ferrules to DIN 46228
TERMINAL CAPACITY (FLEXIBLE)	2 x 1.5 mm ² 1 x 1.5 mm ²
TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE AWG)	14
TERMINAL CAPACITY (SOLID/STRANDED)	1 x 1.5 mm ² 2 x 1,5 mm ²
TIGHTENING TORQUE	0.4 Nm, Screw terminals 3.5 lb-in, Screw terminals

Resources

BROCHURES	Brochure - T Rotary Cam switch and P Switch-disconnector
CATALOGUES	P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN
DECLARATIONS OF CONFORMITY	eaton-step-switch-declaration-of-conformity-uk251335en.pdf eaton-step-switch-declaration-of-conformity-eu250852en.pdf
DRAWINGS	eaton-rotary-switches-mounting-tm-step-switch-dimensions-013.eps eaton-rotary-switches-mounting-tm-step-switch-dimensions-019.eps eaton-rotary-switches-mounting-tm-step-switch-dimensions-002.eps eaton-rotary-switches-mounting-t0-changeover-switch-3d-drawing-003.eps eaton-general-rotary-switch-t0-step-switch-symbol-004.eps eaton-rotary-switches-front-plate-tm-changeover-switch-symbol.eps
ECAD MODEL	DA-CE-ETN.TM-3-8222_EZ
INSTALLATION INSTRUCTIONS	IL03801025Z

INSTALLATION VIDEOS	Eaton's P Switch-disconnectors used in a factory
MCAD MODEL	DA-CS-tm3_ez eaton-cam-switches-mcad-drawings-tm3-ez.dwg
PRODUCT NOTIFICATIONS	MZ008005ZU_Orderform_Customized_Switch.pdf MZ008006ZU_Orderform_Customized_Switch.pdf
WIRING DIAGRAMS	eaton-rotary-switches-contact-t0-changeover-switch-wiring-diagram-005.eps

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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