

Specifications

Photo is representative

Eaton 015197

Eaton Moeller® series TM
Changeoverswitches, TM, 10 A, centre
mounting, 2 contact unit(s), Contacts: 4, 60 °,
maintained, Without 0 (Off) position, 1-2,
Design number 8221

General specifications

PRODUCT NAME	Eaton Moeller® series TM Changeover switch
CATALOG NUMBER	015197
EAN	4015080151975
PRODUCT LENGTH/DEPTH	87 mm
PRODUCT HEIGHT	30 mm
PRODUCT WIDTH	30 mm
PRODUCT WEIGHT	0.043 kg
CERTIFICATIONS	UL 508 UL report applies to both US and Canada Certified by UL for use in Canada IEC/EN 60947-3 UL IEC/EN 60947 UL Category Control No.: NLRV VDE 0660 CSA-C22.2 No. 94 CE CSA IEC/EN 60947-5-1 CSA-C22.2 No. 14-05 UL File No.: E36332
MODEL CODE	TM-2-8221/EZ

Features & Functions

ENCLOSURE MATERIAL	Plastic
FITTED WITH:	Black thumb grip and front plate
INSCRIPTION	1-2
NUMBER OF POLES	2

General

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	2
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

Climatic environmental conditions

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

Terminal capacities

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

Electrical rating

RATED OPERATIONAL

CURRENT (IE) AT AC-3, 0 A
380 V, 400 V, 415 V

RATED OPERATIONAL

POWER AT AC-3, 380/400 V, 50 Hz 2.2 kW

RATED OPERATIONAL

POWER AT AC-23A, 400 V, 50 Hz 3 kW

RATED OPERATIONAL

VOLTAGE (UE) AT AC - 500 V
MAX

RATED UNINTERRUPTED

CURRENT (IU) 10 A

UNINTERRUPTED CURRENT

Rated uninterrupted current lu is specified for max. cross-section.

Short-circuit rating

SHORT-CIRCUIT

PROTECTION RATING

10 A gG/gL, Fuse, Contacts

Switching capacity

SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)

10 A, Rated uninterrupted current max. (UL/CSA)

SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)

10A, IU, (UL/CSA)

SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)

A300 (UL/CSA)

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

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 4

Actuator

ACTUATOR FUNCTION Maintained Without 0 (Off) position

ACTUATOR TYPE Short thumb-grip

Design verification

EQUIPMENT HEAT

DISSIPATION, CURRENT- 0 W

DEPENDENT PVID

HEAT DISSIPATION 0 W
CAPACITY PDISS

HEAT DISSIPATION PER
POLE, CURRENT- 0.15 W
DEPENDENT PVID

RATED OPERATIONAL
CURRENT FOR SPECIFIED 10 A
HEAT DISSIPATION (IN)

STATIC HEAT
DISSIPATION, NON- 0 W
CURRENT-DEPENDENT
PVS

**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.
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.

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 [DA-DC-00004922.pdf](#) [DA-DC-00004893.pdf](#)

DRAWINGS [eaton-rotary-switches-mounting-tm-step-switch-dimensions-002.eps](#)

[eaton-rotary-switches-mounting-tm-step-switch-dimensions-018.eps](#)

[eaton-rotary-switches-mounting-tm-step-switch-dimensions-012.eps](#)

[eaton-general-rotary-switch-t0-step-switch-symbol-004.eps](#)

[eaton-rotary-switches-mounting-t0-changeover-switch-3d-drawing-003.eps](#)

[eaton-rotary-switches-front-plate-tm-changeover-switch-symbol.eps](#)

ECAD MODEL [DA-CE-ETN.TM-2-8221_EZ](#)

INSTALLATION INSTRUCTIONS [IL03801025Z](#)

INSTALLATION VIDEOS [Eaton's P Switch-disconnectors used in a factory](#)

MCAD MODEL [DA-CD-tm2_ez DA-CS-tm2_ez](#)

PRODUCT NOTIFICATIONS [MZ008006ZU_Orderform_Customized_Switch.pdf](#)
[MZ008005ZU_Orderform_Customized_Switch.pdf](#)

WIRING DIAGRAMS [eaton-rotary-switches-contact-t0-changeover-switch-wiring-diagram-004.eps](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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