

Specifications



Eaton 225341

Eaton Moeller® series TM Changeoverswitches, TM, 10 A, service distribution board mounting, 2 contact unit(s), Contacts: 4, 60 °, maintained, With 0 (Off) position, 1-0-2, Design number 8211

General specifications

PRODUCT NAME	Eaton Moeller® series TM Changeover switch
CATALOG NUMBER	225341
EAN	4015082253417
PRODUCT LENGTH/DEPTH	72.5 mm
PRODUCT HEIGHT	60 mm
PRODUCT WIDTH	35.5 mm
PRODUCT WEIGHT	0.058 kg
CERTIFICATIONS	CSA-C22.2 No. 14-05 CSA-C22.2 No. 94 UL UL File No.: E36332 IEC/EN 60947-3 VDE 0660 CSA UL report applies to both US and Canada Certified by UL for use in Canada IEC/EN 60947 IEC/EN 60947-5-1 UL Category Control No.: NLRV UL 508 CE
MODEL CODE	TM-2-8211/IVS

Features & Functions

ENCLOSURE MATERIAL	Plastic
FITTED WITH:	0 (off) position Black thumb grip and front plate
INSCRIPTION	1-0-2
NUMBER OF POLES	2

General

DEGREE OF PROTECTION	IP30
DEGREE OF PROTECTION (FRONT SIDE)	IP30 NEMA 2
LIFESPAN, MECHANICAL	1,000,000 Operations
MODEL	Reverser
MOUNTING METHOD	Service distribution board mounting
MOUNTING POSITION	As required
NUMBER OF CONTACT UNITS	2
OPERATING FREQUENCY	1200 Operations/h
OVERTVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
PRODUCT CATEGORY	Control switches
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V AC
SUITABLE FOR	Ground mounting Distribution board installation 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)	1 x 1.0 mm ² , ferrules to DIN 46228 2 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 With 0 (Off) position
Maintained

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** 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.

**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-003.eps](#)

eaton-rotary-switches-mounting-tm-step-switch-dimensions-004.eps	
eaton-general-rotary-switch-t0-step-switch-symbol-005.eps	
eaton-rotary-switches-front-plate-tm-changeover-switch-symbol-002.eps	
ECAD MODEL	DA-CE-ETN.TM-2-8211_IVS
INSTALLATION INSTRUCTIONS	IL03801025Z
INSTALLATION VIDEOS	Eaton's P Switch-disconnectors used in a factory
MCAD MODEL	DA-CS-tm2_ivs DA-CD-tm2_ivs
PRODUCT NOTIFICATIONS	MZ008006ZU_Orderform_Customized_Switch.pdf MZ008005ZU_Orderform_Customized_Switch.pdf
WIRING DIAGRAMS	eaton-rotary-switches-changeover-switch-tm-changeover-switch-wiring-diagram-002.eps

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



Eaton Corporation plc

Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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