

Specifications



Eaton 000700

Eaton Moeller series TM Step switch, 10 A, Center mounting, 2 contact unit(s), Contacts: 4, Maintained, 1-4, Design: 8231

General specifications

PRODUCT NAME	Eaton Moeller® series TM Step switch
CATALOG NUMBER	000700
MODEL CODE	TM-2-8231/EZ
EAN	4015080007005
PRODUCT LENGTH/DEPTH	87 mm
PRODUCT HEIGHT	30 mm
PRODUCT WIDTH	30 mm
PRODUCT WEIGHT	0.044 kg

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

Actuator

ACTUATOR FUNCTION	Maintained Without 0 (Off) position
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ACTUATOR TYPE	Toggle
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NUMBER OF STEPS	4 (60°)
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NUMBER OF SWITCH POSITIONS	4
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Contacts

CONTROL CIRCUIT RELIABILITY	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
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NUMBER OF CONTACTS	4
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Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	50 °C
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AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
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AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
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AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
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CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
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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.
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10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
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10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
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10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
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10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.
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10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.
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10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT	Meets the product standard's requirements.
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10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	Meets the product standard's requirements.
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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 OPERATING VOLTAGE (UE) AT AC - MAX 500 V

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

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

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

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 Step switch

Short-circuit rating

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

Features & functions

FITTED WITH: Black thumb grip and front plate

INSCRIPTION 1-4

NUMBER OF POLES Single-pole

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 (AUXILIARY CONTACTS, PILOT DUTY) A300 (UL/CSA)

SWITCHING CAPACITY (MAIN CONTACTS, 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)	2 x 1,5 mm ² 1 x 1.5 mm ²
TIGHTENING TORQUE	3.5 lb-in, Screw terminals 0.4 Nm, 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-018.eps eaton-rotary-switches-mounting-tm-step-switch-dimensions-012.eps eaton-rotary-switches-mounting-tm-step-switch-dimensions-002.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-step-switch-symbol-002.eps
ECAD MODEL	DA-CE-ETN.TM-2-8231_EZ
INSTALLATION INSTRUCTIONS	IL03801026Z
INSTALLATION VIDEOS	Eaton's P Switch-disconnectors used in a factory
MCAD MODEL	DA-CS-tm2_ez

	eaton-universal-control-switches-mcad-drawings-tm2-ez.dwg
PRODUCT	MZ008006ZU_Orderform_Customized_Switch.pdf
NOTIFICATIONS	MZ008005ZU_Orderform_Customized_Switch.pdf
WIRING DIAGRAMS	eaton-rotary-switches-switch-t0-step-switch-wiring-diagram-008.eps

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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