Specifications



Photo is representative

Eaton 015197

Eaton Moeller® series TM Changeover switch, 10 A, center mounting, 2 contact units, Contacts: 4, 60 °, maintained, 1-2, Design number 8221

General specifications	
PRODUCT NAME	Eaton Moeller® series TM Changeover switch
CATALOG NUMBER	015197
MODEL CODE	TM-2-8221/EZ
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

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 mm², ferrules to DIN 46228 1 x 1.0 mm², ferrules to DIN 46228
TERMINAL CAPACITY (FLEXIBLE)	1 x 1.5 mm² 2 x 1.5 mm²
TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE AWG)	14
TERMINAL CAPACITY (SOLID/STRANDED)	2 x 1,5 mm² 1 x 1.5 mm²
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, 380 V, 400 V, 415 V	0 A
RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V	10 A
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 - MAX	500 V
RATED UNINTERRUPTED CURRENT (IU)	10 A
UNINTERRUPTED CURRENT	Rated uninterrupted current Iu 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 (MAIN CONTACTS, GENERAL USE)	10 A, Rated uninterrupted current max. (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

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
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	eaton-changeover-switch-declaration-of-conformity-uk260201en.pdf eaton-changeover-switch-declaration-of-conformity-eu260191en.pdf
DRAWINGS	eaton-rotary-switches-mounting-tm-step-switch-dimensions-018.eps eaton-rotary-switches-mounting-tm-step-switch-dimensions-002.eps eaton-rotary-switches-mounting-tm-step-switch-dimensions-012.eps eaton-rotary-switches-front-plate-tm-changeover-switch-symbol.eps eaton-general-rotary-switch-t0-step-switch-symbol-004.eps eaton-rotary-switches-mounting-t0-changeover-switch-3d-drawing-003.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-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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