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
GLOBAL CATALOG	015197
PRODUCT TYPE	Changeover switch

Product specifications

TYPE	Changeover switch
PRODUCT CATEGORY	Control switches
ACTUATOR FUNCTION	Maintained Without 0 (Off) position
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	Is the panel builder's

ELECTRICAL CIRCUITS AND CONNECTIONS	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.
FITTED WITH:	Black thumb grip and front plate
OPERATING FREQUENCY	1200 Operations/h
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
ENCLOSURE MATERIAL	Plastic
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V AC
ACTUATOR TYPE	Short thumb-grip
AMBIENT OPERATING TEMPERATURE - MAX	50 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
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
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0.15 W
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY	0

CLOSED CONTACTS)	
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
NUMBER OF CONTACT UNITS	2
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
MOUNTING POSITION	As required
MOUNTING METHOD	Center mounting
OVERVOLTAGE CATEGORY	III
CONTROL CIRCUIT RELIABILITY	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
NUMBER OF POLES	2
DEGREE OF PROTECTION	IP65
NUMBER OF CONTACTS	4
MODEL	Reverser
DEGREE OF PROTECTION (FRONT SIDE)	IP65 NEMA 12
INSCRIPTION	1-2
LIFESPAN, MECHANICAL	1,000,000 Operations
SCREW SIZE	M2.5, Terminal screw
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	10A, IU, (UL/CSA)
TIGHTENING TORQUE	0.4 Nm, Screw terminals 3.5 lb-in, Screw terminals
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	A300 (UL/CSA)
RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V	10 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	0 A
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	10 A, Rated uninterrupted current max. (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING	10 A gG/gL, Fuse, Contacts
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x 1.0 mm², ferrules to DIN 46228 1 x 1.0 mm², ferrules to DIN 46228
SUITABLE FOR	Front mounting
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	10 A
RATED OPERATIONAL POWER AT AC-23A, 400 V,	3 kW

50 HZ	
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	2.2 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	500 V
RATED UNINTERRUPTED CURRENT (IU)	10 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
SWITCHING ANGLE	60 °
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
UNINTERRUPTED CURRENT	Rated uninterrupted current Iu is specified for max. cross-section.
DESIGN	8221

Resources

BROCHURES	Brochure - T Rotary Cam switch and P Switch-disconnector
CATALOGS	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-012.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-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	MZ008005ZU_Orderform_Customized_Switch.pdf

	MZ008006ZU_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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