

## Eaton 045493

Eaton Moeller® series TM

Changeoverswitches, TM, 10 A, centre mounting, 3 contact unit(s), Contacts: 6, 60 °, maintained, Without 0 (Off) position, 1-2, Design number 8222

<b>PRODUCT NAME</b>	Eaton Moeller® series TM Changeover switch
<b>CATALOG NUMBER</b>	045493
<b>PRODUCT LENGTH/DEPTH</b>	98 mm
<b>PRODUCT HEIGHT</b>	30 mm
<b>PRODUCT WIDTH</b>	30 mm
<b>PRODUCT WEIGHT</b>	0.053 kg
<b>CERTIFICATIONS</b>	CE IEC/EN 60947-5-1 UL Category Control No.: NLRV CSA-C22.2 No. 94 UL report applies to both US and Canada Certified by UL for use in Canada CSA IEC/EN 60947-3 VDE 0660 UL UL File No.: E36332 CSA-C22.2 No. 14-05 IEC/EN 60947 UL 508

<b>TYPE</b>	Changeover switch
<b>PRODUCT CATEGORY</b>	Control switches
<b>ACTUATOR FUNCTION</b>	Without 0 (Off) position Maintained
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	UV resistance only in connection with protective shield.
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product

	<a href="#">IL03801025Z</a>
	<a href="#">eaton-rotary-switches-contact-t0-changeover-switch-wiring-diagram-005.eps</a>
	<a href="#">eaton-rotary-switches-mounting-tm-step-switch-dimensions-002.eps</a>
	<a href="#">eaton-rotary-switches-mounting-tm-step-switch-dimensions-019.eps</a>
	<a href="#">eaton-rotary-switches-mounting-tm-step-switch-dimensions-013.eps</a>
	<a href="#">eaton-rotary-switches-front-plate-tm-changeover-switch-symbol.eps</a>

	standard's requirements.
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>FITTED WITH:</b>	Black thumb grip and front plate
<b>OPERATING FREQUENCY</b>	1200 Operations/h
<b>POLLUTION DEGREE</b>	3
<b>CLIMATIC PROOFING</b>	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
<b>ENCLOSURE MATERIAL</b>	Plastic
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	4000 V AC
<b>ACTUATOR TYPE</b>	Short thumb-grip
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	50 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE</b>	0.33 HP
<b>ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 3-PHASE</b>	0.75 HP

<b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE</b>	0.75 HP
<b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE</b>	1 HP
<b>ASSIGNED MOTOR POWER AT 277 V, 60 HZ, 1-PHASE</b>	0.75 HP
<b>EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID</b>	0 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID</b>	0.15 W
<b>NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS)</b>	0
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	0
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	0
<b>NUMBER OF CONTACT UNITS</b>	3
<b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>	Screw connection
<b>MOUNTING POSITION</b>	As required
<b>MOUNTING METHOD</b>	Center mounting
<b>OVERVOLTAGE CATEGORY</b>	III
<b>CONTROL CIRCUIT RELIABILITY</b>	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
<b>NUMBER OF POLES</b>	3
<b>DEGREE OF PROTECTION</b>	IP65
<b>NUMBER OF CONTACTS</b>	6
<b>MODEL</b>	Reverser
<b>DEGREE OF PROTECTION (FRONT SIDE)</b>	IP65 NEMA 12
<b>INSCRIPTION</b>	1-2
<b>LIFESPAN, MECHANICAL</b>	1,000,000 Operations
<b>SCREW SIZE</b>	M2.5, Terminal screw

<b>SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)</b>	10A, IU, (UL/CSA)
<b>TIGHTENING TORQUE</b>	0.4 Nm, Screw terminals 3.5 lb-in, Screw terminals
<b>SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)</b>	A300 (UL/CSA)
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V</b>	0 A
<b>SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)</b>	10 A, Rated uninterrupted current max. (UL/CSA)
<b>SHORT-CIRCUIT PROTECTION RATING</b>	10 A gG/gL, Fuse, Contacts
<b>TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)</b>	1 x 1.0 mm <sup>2</sup> , ferrules to DIN 46228 2 x 1.0 mm <sup>2</sup> , ferrules to DIN 46228
<b>SUITABLE FOR</b>	Front mounting
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	10 A
<b>RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ</b>	3 kW
<b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>	3.3 kW
<b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b>	500 V
<b>RATED UNINTERRUPTED CURRENT (IU)</b>	10 A
<b>STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS</b>	0 W
<b>SWITCHING ANGLE</b>	60 °
<b>TERMINAL CAPACITY (FLEXIBLE)</b>	2 x 1.5 mm <sup>2</sup> 1 x 1.5 mm <sup>2</sup>
<b>TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE AWG)</b>	14
<b>TERMINAL CAPACITY (SOLID/STRANDED)</b>	1 x 1.5 mm <sup>2</sup> 2 x 1,5 mm <sup>2</sup>
<b>UNINTERRUPTED CURRENT</b>	Rated uninterrupted current Iu is specified for

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max. cross-section.

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**PROJECT NAME:**

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**PROJECT NUMBER:**

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**PREPARED BY:**

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