DATASHEET - TM-6-8370/EZ

Changeoverswitches, TM, 10 A, centre mounting, 6 contact unit(s), Contacts: 12, 60 °, maintained, Without 0 (Off) position, 1-2, Design number 8370



Part no.

TM-6-8370/EZ 046130

General specifications	
Product name	Eaton Moeller® series TM Changeover switch
Part no.	TM-6-8370/EZ
EAN	4015080461302
Product Length/Depth	134 millimetre
Product height	30 millimetre
Product width	30 millimetre
	0.09 kilogram
Product weight	
Certifications	IEC/EN 60947-3 CSA-C22.2 No. 14-05 UL 508 VDE 0660 Certified by UL for use in Canada UL Category Control No.: NLRV UL File No.: E36332 CSA IEC/EN 60947-5-1 CE CSA-C22.2 No. 94 UL report applies to both US and Canada IEC/EN 60947 UL CSA UL
Product Tradename	ТМ
Product Type	Changeover switch
Product Sub Type	None
Features & Functions	
Enclosure material	Plastic
Fitted with:	Black thumb grip and front plate
Inscription	1-2
Number of poles	6
General information	
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	6
Operating frequency	1200 Operations/h
Overvoltage category	
Pollution degree	3
Rated impulse withstand voltage (Uimp)	4000 V AC
Suitable for	Front mounting
Switching angle	60 °
Туре	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
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Terminal equation	
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	3.5 lb-in, Screw terminals
rightening torque	0.4 Nm, Screw terminals
Electrical rating	
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	0 A
Rated operational power at AC-3, 380/400 V, 50 Hz	6.6 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 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	12
Actuator	
Actuator function	Maintained
Advetestar	Without 0 (Off) position
Actuator type	Short thumb-grip
Design verification	
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
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements. Meets the product standard's requirements.
10.2.3.2 verification of resistance of insulating materials to normal neat 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.
10.2.5 Litting 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.
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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.

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Off-load switch (EC001105)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Load-break switch (ecl@ss13-27-37-14-05 [AKF062018])

Number of poles 6 With zero (off) position 6 6 With zero (off) position 0 0 0 Rated permanent current lu A 0			
With zero (off position No With zero (off position No Bated permanent current lu A Bated peration current le at AC-3, 400 V A Bated operation power at AC-3, 400 V KW Degree of protection (NF, front side M Degree of protection (NEMA), front side M Number of auxiliary contacts as normally closed contact M Number of auxiliary contacts as normally closed contact M Suitable for floor mounting M Suitable for instruction information M Suitable for instruction information M Suitable for instruction M Suitable for instructinstinstruction	Model		Reverser
With retraction in 0-position No Rated permanent current lu A Rated operation current le at AC-3, 400 V A Rated operation power at AC-3, 400 V KW Bage of protection (IP), front side F Degree of protection (IPAM), front side F Degree of protection (NEMA), front side F Number of auxiliary contacts as normally closed contact F Number of auxiliary contacts as normally closed contact F Sutable for front mounting F Sutable for front mounting F Suitable for instrumediate mounting F	Number of poles		6
Aeta depermanent current lu A 0 Rated operation current le at AC-3, 400 V A 0 Rated operation power at AC-3, 400 V KW 6 Degree of protection (IP), front side Fee Fee Degree of protection (NEMA), front side Fee 0 Number of auxiliary contacts as normally closed contact Fee 0 Number of auxiliary contacts as change-over contact Fee 0 Suitable for floor mounting Fee 0 Suitable for intermediate mounting Fee 0 Suitable for intermediate mounting Fee No Runge material Fee Fee No Runge material Fee Fee Fee Fee	With zero (off) position		No
Rated operation current le at AC-3, 400 V A A Rated operation power at AC-3, 400 V KW 66 Degree of protection (IP), front side IP65 Degree of protection (NEMA), front side J Number of auxiliary contacts as normally closed contact J Number of auxiliary contacts as normally open contact J Suitable for flour mounting J Suitable for flour mounting V Suitable for intermediate mounting	With retraction in 0-position		No
Rate operation power at AC-3,400 VKW6Degree of protection (IP), front sideIP65Degree of protection (NEMA), front sideINumber of auxiliary contacts as normally closed contact0Number of auxiliary contacts as normally open contactINumber of auxiliary contacts as normally open contactINumber of auxiliary contacts as change-over contactINumber of auxiliary contacts as change-over contactISuitable for front mountingISuitable for front mountingISuitable for intermediate mountingISuitabl	Rated permanent current lu	А	10
Degree of protection (IP), front sideP65Degree of protection (NEMA), front side12Number of auxiliary contacts as normally closed contact0Number of auxiliary contacts as normally open contact0Number of auxiliary contacts as normally open contact0Number of auxiliary contacts as normally open contact0Suitable for floor mounting0Suitable for front mountingNoSuitable for first mountingNoSuitable for intermediate mountingNoSuitable for intermediate mountingNoComplete device in housingNoHousing materialPasicType of controlMoSuitable for fort mountingNoSuitable for intermediate mountingSoSuitable for intermediate mountingSoSuitable for intermediate mountingSoSuitable for intermediate mountingSoSuitable for intermediate mountingSoSui	Rated operation current le at AC-3, 400 V	А	0
Degree of protection (NEMA), front sideImage: Complex of protection (NEMA), front sideImage: Complex of protection (NEMA), front sideNumber of auxiliary contacts as normally closed contactImage: Complex of protection (NEMA), front sideImage: Complex of protection (NEMA), front sideNumber of auxiliary contacts as normally closed contactImage: Complex of protection (NEMA), front sideImage: Complex of protection (NEMA), front sideNumber of auxiliary contacts as normally open contactImage: Complex of protection (NEMA), front sideImage: Complex of protection (NEMA), front sideNumber of auxiliary contacts as normally open contactImage: Complex of protection (NEMA), front sideImage: Complex of protection (NEMA), front sideNumber of auxiliary contacts as normally open contactImage: Complex of protection (NEMA), front sideImage: Complex of protection (NEMA), front sideSuitable for front mountingImage: Complex of protection (NEMA), front sideImage: Complex of protection (NEMA), front sideSuitable for intermediate mountingImage: Complex of protection (NEMA), front sideImage: Complex of protection (NEMA), front sideComplex of evice in housingImage: Complex of protection (NEMA), front sideImage: Complex of protection (NEMA), front sideHousing materialImage: Complex of protection (NEMA), front sideImage: Complex of protection (NEMA), front sideHousing materialImage: Complex of protection (NEMA), front sideImage: Complex of protection (NEMA), front sideHousing materialImage: Complex of protection (NEMA), front sideImage: Complex of protection (NEMA), front sideHousing materialI	Rated operation power at AC-3, 400 V	kW	6.6
Number of auxiliary contacts as normally closed contact 0 Number of auxiliary contacts as normally open contact 0 Number of auxiliary contacts as normally open contact 0 Number of auxiliary contacts as change-over contact 0 Suitable for floor mounting 0 Suitable for floor mounting 0 Suitable for distribution board installation 6 Suitable for intermediate mounting 0 Complete device in housing 6 Housing material 0 Number of control element 6	Degree of protection (IP), front side		IP65
Number of auxiliary contacts as normally open contact Image: Content of auxiliary contacts as change-over contact Image: Content of auxiliary contacts as change-over contact Suitable for floor mounting Image: Content of auxiliary contacts as change-over contact Image: Content of auxiliary contacts as change-over contact Suitable for floor mounting Image: Content of auxiliary contacts as change-over contact Image: Content of auxiliary contacts as change-over contact Suitable for floor mounting Image: Content of auxiliary contacts as change-over contact Image: Content of auxiliary contacts as change-over contact Suitable for intermediate mounting Image: Content of auxiliary contacts as change-over contact Image: Content of auxiliary contacts as change-over contact Rousing material Image: Content of auxiliary contacts as change-over contact Image: Content of auxiliary contacts as change-over contact Type of control element Image: Content of auxiliary contacts as change-over contac	Degree of protection (NEMA), front side		12
Number of auxiliary contacts as change-over contact Image: Content of the state of the st	Number of auxiliary contacts as normally closed contact		0
Suitable for floor mountingNoSuitable for front mountingYesSuitable for distribution board installationYesSuitable for intermediate mountingNoComplete device in housingYesHousing materialNoType of control elementYesSuitable for intermediate mountingYesSuitable for intermediate mountingNoSuitable for intermediate mountingSuitable for intermediate mountingSuit	Number of auxiliary contacts as normally open contact		0
Suitable for front mounting Yes Suitable for distribution board installation No Suitable for intermediate mounting No Complete device in housing No Housing material No Type of control element Soit thumb-grip	Number of auxiliary contacts as change-over contact		0
Suitable for distribution board installation Mo Suitable for intermediate mounting No Complete device in housing Mo Housing material No Type of control element Image: Source and So	Suitable for floor mounting		No
Suitable for intermediate mounting No Complete device in housing Mo Housing material No Type of control element Mo	Suitable for front mounting		Yes
Complete device in housing No Housing material Plastic Type of control element Short thumb-grip	Suitable for distribution board installation		No
Housing material Plastic Type of control element Short thumb-grip	Suitable for intermediate mounting		No
Type of control element Short thumb-grip	Complete device in housing		No
	Housing material		Plastic
Type of electrical connection of main circuit Screw connection	Type of control element		Short thumb-grip
	Type of electrical connection of main circuit		Screw connection