Control circuit switches, TM, 10 A, flush mounting, Contacts: 1, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position



Part no. TM-1-8290/E/SVB 045477

Product name Part no. This Hazort's Ver This Hazo	General specifications	
Product Length Obeph	Product name	Eaton Moeller® series TM Accessory Control circuit isolator
Product Length/Depth Product whith Product width Product width Product width Product width Product width Certifications Certification Certifications Certification Certification Certification Certification Certification Certification Certification Certification Certification C	Part no.	TM-1-8290/E/SVB
Product height Product winth Product winth ORD Shingram Certifications Certificat	EAN	4015080454779
Product weight Certifications Certifications	Product Length/Depth	77 millimetre
Product veight Certifications Certification Ce	Product height	48 millimetre
Carifications Carification	Product width	30 millimetre
IECEN 1987-5-1 CSA 2-22-20-1-1-156 U.F. He No. 19822 Certified by U.F. Urousein Canada U.F. Urousein Ca	Product weight	0.069 kilogram
Product Type Product Sub Type Catlog Motes up to 250 V AC per contact Features Version as amergency stop installation Fittled with: Functions Functions Locking facility Locking facility Number of poles General information Degree of protection (front side) Lifespan, mechanical Mounting method Mounting method Mounting method Mounting method Number of contact units Operating frequency Overvoltage catagory Ill Pollution degree Switching angle Type Climatic proving a magneture - min Ambient operating temperature - min Ambient operating temperature - max Climatic roofing Locking temperature - max Climatic proving temperature - max Climatic proving temperature - max Degree of protection (front side) Locking facility Lockable in the 0 (0ff) position Locka	Certifications	IEC/EN 60947-5-1 CSA-C22.2 No. 14-05 UL File No.: E36332 Certified by UL for use in Canada UL VDE 0660 CSA IEC/EN 60947-3 CE UL 508 IEC/EN 60947 UL report applies to both US and Canada
Product Sub Type Catalog Notes up to 250 V AC per contact Features & Functions Features Fitted with: Fitted with: Formation Locking facility Lockable in the 0 (0ff) position Number of poles General information Degree of protection (front side) Lifespan, mechanical Mounting method Mounting method Mounting position Number of contact units Operating frequency Overvoltage category Pollution degree Rated impluse withstand voltage (Uimp) Switching angle Type Control circuit switch Ambient operating temperature - min Ambient operating temperature - min Life contact units Ambient operating temperature - min Ambient operating temperature - max Life contact units Ambient operating temperature - max Life contact contact operating temperature - max Life contact contac	Product Tradename	TM
Catalog Notes Features & Functions Features Version as emergency stop installation Fitted with: Red rotary handle and yellow locking ring Interlockable Interlockable Interlockable Interlockable in the 0 (0ff) position Locking facility Lock	Product Type	Accessory
Features & Functions Features Features Version as emergency stop installation Red rotary handle and yellow locking ring Interlockable Emergency switching off function Locking facility Locking facility Number of poles Seneral information Degree of protection Degree of protection (front side) Lifespan, mechanical Mounting method Mounting method Mounting position Number of contact units 1 Operating frequency Overvoltage category Pollution degree Rated impulse withstand voltage (Uimp) Switching angle Type Control circuit switch Ambient operating temperature - min Ambient operating temperature - max Climatic proofing Damp heat, cyclic, to IEC 60068-2-30	Product Sub Type	Control circuit isolator
Features Fitted with: Fitted with: Functions Locking facility Locking facility Number of poles Seneral information Degree of protection Degree of protection (front side) Lifespan, mechanical Mounting method Mounting position Number of contact units Operating frequency Overvoltage category Fill Flated impulse withstand voltage (Uimp) Switching angle Type Control circuit switch Ambient operating temperature - min Ambient operating temperature - max Climatic proofing Ambient operating temperature - max Climatic proofing Damp heat, cyclic, to IEC 60068-2-30	Catalog Notes	up to 250 V AC per contact
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Functions Interlockable Emergency switching off function Locking facility Number of poles Interlockable in the 0 (0ff) position Interlockable in the interlockable in the interlockable in the interlockable in	Features	Version as emergency stop installation
Emergency switching off function Locking facility Number of poles Seneral information Degree of protection Degree of protection (front side) Lifespan, mechanical Mounting method Mounting position Mounting position Mounting position As required Number of contact units Operating frequency Overvoltage category III Pollution degree Rated impulse withstand voltage (Uimp) Suitable for Switching angle Type Control circuit switch Ambient operating temperature - min Ambient operating temperature - max Climatic proofing Climatic proofing Damp heat, cyclic, to IEC 60068-2-30	Fitted with:	Red rotary handle and yellow locking ring
Number of poles Seneral information Degree of protection Degree of protection (front side) Lifespan, mechanical Mounting method Mounting method Mounting position As required Number of contact units 1 Operating frequency Overvoltage category Follution degree Rated impulse withstand voltage (Uimp) Switching angle Switching angle Type Control circuit switch Ambient operating temperature - min Ambient operating temperature - max Climatic proofing Damp heat, cyclic, to IEC 60068-2-30	Functions	Emergency switching off function
Degree of protection Degree of protection (front side) Lifespan, mechanical Mounting method Mounting position Number of contact units Operating frequency Overvoltage category Pollution degree Rated impulse withstand voltage (Uimp) Suitable for Switching angle Type Control circuit switch Ambient operating temperature - min Ambient operating temperature - max Climatic proofing Damp heat, cyclic, to IEC 60068-2-30		Lockable in the 0 (Off) position
Degree of protection Degree of protection (front side) Lifespan, mechanical Mounting method Mounting position Number of contact units Operating frequency Overvoltage category Ill Pollution degree Rated impulse withstand voltage (Uimp) Switching angle Type Control circuit switch Ambient operating temperature - min Ambient operating temperature - max Climatic proofing NEMA 12 IP65 Inex IP65 Inex Inox 1,000,000 Operations Flush mounting As required 1200 Operations/h Ill 4000 V AC Front mounting 4-hole 90 ° Control circuit switch -25 °C Ambient operating temperature - min Ambient operating temperature - max Climatic proofing Damp heat, cyclic, to IEC 60068-2-30		1
Degree of protection (front side) Lifespan, mechanical Mounting method Mounting method Mounting position Number of contact units Operating frequency Overvoltage category III Pollution degree Rated impulse withstand voltage (Uimp) Suitable for Switching angle Type Control circuit switch Ambient operating temperature - min Ambient operating temperature - max Climatic proofing IP65 1,000,000 Operations Hush mounting As required As required 1200 Operations/h 1000 VAC 1111 1101	General information	
Lifespan, mechanical Mounting method Mounting position Mounting position Number of contact units Operating frequency Overvoltage category III Pollution degree Rated impulse withstand voltage (Uimp) Suitable for Switching angle Type Control circuit switch Ambient operating temperature - min Ambient operating temperature - max Climatic proofing 1,000,000 Operations In,000,000 Operations As required As required 1 1 1 1 1 1 1 1 1 1 1 1 1	Degree of protection	NEMA 12
Mounting method Mounting position As required Number of contact units 1 Operating frequency 1200 Operations/h Overvoltage category III Pollution degree 3 Rated impulse withstand voltage (Uimp) 4000 V AC Suitable for Switching angle 5 witching angle 7 ype Control circuit switch Climatic environmental conditions Ambient operating temperature - min Ambient operating temperature - max Climatic proofing Damp heat, cyclic, to IEC 60068-2-30	Degree of protection (front side)	IP65
Mounting position Number of contact units 1 Operating frequency 1200 Operations/h Overvoltage category III Pollution degree 3 Rated impulse withstand voltage (Uimp) 4000 V AC Suitable for Front mounting 4-hole Switching angle 7 Type Control circuit switch Climatic environmental conditions Ambient operating temperature - min Ambient operating temperature - max Climatic proofing Damp heat, cyclic, to IEC 60068-2-30	Lifespan, mechanical	1,000,000 Operations
Number of contact units Operating frequency 1200 Operations/h III Pollution degree 3 Rated impulse withstand voltage (Uimp) Suitable for Switching angle Type Control circuit switch Climatic environmental conditions Ambient operating temperature - min Ambient operating temperature - max Climatic proofing Damp heat, cyclic, to IEC 60068-2-30	Mounting method	Flush mounting
Operating frequency Overvoltage category III Pollution degree 3 Rated impulse withstand voltage (Uimp) 4000 V AC Suitable for Front mounting 4-hole Switching angle Type Control circuit switch Ambient operating temperature - min Ambient operating temperature - max Climatic proofing Damp heat, cyclic, to IEC 60068-2-30	Mounting position	As required
Overvoltage category Pollution degree Rated impulse withstand voltage (Uimp) Suitable for Switching angle Type Control circuit switch Ambient operating temperature - min Ambient operating temperature - max Climatic proofing Page 111 August 12		
Pollution degree Rated impulse withstand voltage (Uimp) 4000 V AC Suitable for Switching angle Type Control circuit switch Cimatic environmental conditions Ambient operating temperature - min Ambient operating temperature - max Climatic proofing Damp heat, cyclic, to IEC 60068-2-30	Operating frequency	1200 Operations/h
Rated impulse withstand voltage (Uimp) Suitable for Switching angle Type Control circuit switch Climatic environmental conditions Ambient operating temperature - min Ambient operating temperature - max Climatic proofing Damp heat, cyclic, to IEC 60068-2-30	Overvoltage category	III
Suitable for Front mounting 4-hole Switching angle 90 ° Type Control circuit switch Cimatic environmental conditions Ambient operating temperature - min -25 °C Ambient operating temperature - max 50 °C Climatic proofing Damp heat, cyclic, to IEC 60068-2-30	Pollution degree	3
Switching angle Type Control circuit switch Climatic environmental conditions Ambient operating temperature - min Ambient operating temperature - max Climatic proofing Damp heat, cyclic, to IEC 60068-2-30	Rated impulse withstand voltage (Uimp)	4000 V AC
Type Control circuit 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		
Ambient operating temperature - min Ambient operating temperature - max Climatic proofing Damp heat, cyclic, to IEC 60068-2-30	Switching angle	90 °
Ambient operating temperature - max 50 °C Climatic proofing Damp heat, cyclic, to IEC 60068-2-30		Control circuit switch
Climatic proofing Damp heat, cyclic, to IEC 60068-2-30	Ambient operating temperature - min	-25 °C
	Ambient operating temperature - max	50 °C

Terminal capacity	1 x 1.5 mm², flexible 2 x 1.0 mm², flexible with ferrules to DIN 46228 1 x 1.0 mm², flexible with ferrules to DIN 46228 1 x 1.5 mm², solid or stranded 2 x 1.5 mm², flexible 14 AWG, solid or flexible with ferrule 2 x 1,5 mm², solid or stranded
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-21, 440 V	10 A
Rated operational power at AC-3, 380/400 V, 50 Hz	0 kW
Rated operational power at AC-23A, 400 V, 50 Hz	3 kW
Rated uninterrupted current (Iu)	10 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating	
Rated conditional short-circuit current (Ig)	0 kA
Rated short-time withstand current (Icw)	0 kA
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) Switching capacity (auxiliary contacts, general use)	10 A, nated uninterrupted current max. (OL/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
Actuator	
Actuator color	Red
Actuator type	Door coupling rotary drive
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	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.
	and distribution to be distributed.

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) / Switch disconnector (low voltage) (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss13-27-37-14-03 [AKF060018])

[AKF060018])		
Version as main switch		No
Version as maintenance-/service switch		No
Version as safety switch		No
Version as emergency stop installation		Yes
Version as reversing switch		No
Number of switches		1
Max. rated operation voltage Ue AC	V	
Rated operating voltage	V	690 - 690
Rated permanent current lu	Α	10
Rated permanent current at AC-23, 400 V	Α	
Rated permanent current at AC-21, 400 V	Α	0
Rated operation power at AC-3, 400 V	kW	0
Rated short-time withstand current lcw	kA	0
Rated operation power at AC-23, 400 V	kW	3
Switching power at 400 V	kW	0
Conditioned rated short-circuit current Iq	kA	0
Number of poles		1
Number of auxiliary contacts as normally closed contact		0
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as change-over contact		0
Motor drive optional		No
Motor drive integrated		No
Voltage release optional		No
Device construction		Built-in device fixed built-in technique
Suitable for floor mounting		No
Suitable for front mounting 4-hole		Yes
Suitable for front mounting centre		No
Suitable for distribution board installation		No
Suitable for intermediate mounting		No
Colour control element		Red
Type of control element		Door coupling rotary drive
Interlockable		Yes
Type of electrical connection of main circuit		Screw connection
With pre-assembled cabling		No
Degree of protection (IP), front side		IP65
Degree of protection (NEMA)		12
Width	mm	30
Height	mm	48
Depth	mm	77

Width in number of modular spacings