DATASHEET - T0-2-1/I2H/MBS/SVB

Main switch, T0, 20 A, surface mounting, 2 contact unit(s), 3 pole, Emergency switching off function, Lockable in the 0 (Off) position, hard knockout version, with assembly sheet screen



Part no. T0-2-1/I2H/MBS/SVB

182425

EL Number 1400401

(Norway)

(Norway)	
General specifications	
Product name	Eaton Moeller® series TO Main switch
Part no.	T0-2-1/I2H/MBS/SVB
EAN	4015081773510
Product Length/Depth	136 millimetre
Product height	181 millimetre
Product width	100 millimetre
Product weight	0.55 kilogram
Certifications Product Tradename	IEC/EN 60947 IEC/EN 60947-3 VDE 0660 IEC/EN 60204
Product Type	Main switch
Product Sub Type	None hard knockout version
Catalog Notes Features & Functions	Rated Short-time Withstand Current (Icw) for a time of 1 second
Features	Version as main switch Version as maintenance-/service switch Version as emergency stop installation
Fitted with:	Red rotary handle and yellow locking ring Assembly sheet screen
Functions	Interlockable Emergency switching off function
Locking facility	Lockable in the 0 (Off) position
Number of poles	3
General information	
Degree of protection	NEMA 12
Degree of protection (front side)	IP65
Lifespan, mechanical	400,000 Operations
Mounting method	Surface mounting
Mounting position	As required
Number of contact units	2
Operating frequency	1200 Operations/h
Overvoltage category	III
Pollution degree	3
Rated impulse withstand voltage (Uimp)	6000 V AC
Safe isolation	440 V AC, Between the contacts, According to EN 61140
Safety parameter (EN ISO 13849-1)	B10d values as per EN ISO 13849-1, table C.1
Shock resistance	15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
Suitable for	Ground mounting
Switching angle	90 °
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	40 °C
Ambient operating temperature (enclosed) - min	-20 °C
Ambient operating temperature (enclosed) - max	40 °C
Climatic proofing	Damp heat, constant, to IEC 60068-2-78

	Damp heat, cyclic, to IEC 60068-2-30
Ferminal capacities	
Terminal capacity	$2 \times (0.75 - 2.5) \text{ mm}^2$, flexible with ferrules to DIN 46228 $1 \times (1 - 2.5) \text{ mm}^2$, solid or stranded $1 \times (0.75 - 2.5) \text{ mm}^2$, flexible with ferrules to DIN 46228 $2 \times (1 - 2.5) \text{ mm}^2$, solid or stranded
Screw size	M3.5, Terminal screw
Tightening torque	1 Nm, Screw terminals
lectrical rating	
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	100 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	110 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	80 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	60 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	11.5 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	11.5 A
Rated operational current (Ie) at AC-3, 500 V	9 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	4.9 A
Rated operational current (Ie) at AC-21, 440 V	20 A
Rated operational current (Ie) at AC-23A, 230 V	13.3 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	13.3 A
Rated operational current (Ie) at AC-23A, 500 V	13.3 A
Rated operational current (Ie) at AC-23A, 690 V	7.6 A
Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms	10 A
Rated operational current (le) at DC-13, control switches L/R = 50 ms	10 A
Rated operational current (Ie) at DC-21, 240 V	1 A
Rated operational current (Ie) at DC-23A, 24 V	10 A
Rated operational current (Ie) at DC-23A, 48 V	10 A
Rated operational current (Ie) at DC-23A, 60 V	10 A
Rated operational current (le) at DC-23A, 120 V	5 A
Rated operational current (Ie) at DC-23A, 240 V	5 A
Rated operational current (le) star-delta at AC-3, 220/230 V	20 A
Rated operational current (le) star-delta at AC-3, 380/400 V	20 A
Rated operational current (Ie) star-delta at AC-3, 500 V	15.6 A
Rated operational current (le) star-delta at AC-3, 690 V	8.5 A
Rated operational power at AC-3, 380/400 V, 50 Hz	5.5 kW
Rated operational power at AC-3, 415 V, 50 Hz	5.5 kW
Rated operational power at AC-3, 690 V, 50 Hz	4 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	3 kW
Rated operational power at AC-23A, 400 V, 50 Hz	5.5 kW
Rated operational power at AC-23A, 500 V, 50 Hz	7.5 kW
Rated operational power at AC-23A, 690 V, 50 Hz	5.5 kW
Rated operational power star-delta at 220/230 V, 50 Hz	5.5 kW
Rated operational power star-delta at 380/400 V, 50 Hz	7.5 kW
Rated operational power star-delta at 500 V, 50 Hz	7.5 kW
Rated operational power star-delta at 690 V, 50 Hz	5.5 kW
Rated operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (Iu)	20 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
hort-circuit rating	
Rated conditional short-circuit current (Iq)	6 kA
Rated short-time withstand current (Icw)	320 A, Contacts, 1 second 0.32 kA
Short-circuit protection rating	20 A gG/gL, Fuse, Contacts
witching capacity	
Load rating	1.3 x l # (with intermittent operation class 12, 60 % duty factor) 2 x l # (with intermittent operation class 12, 25 % duty factor) 1.6 x l # (with intermittent operation class 12, 40 % duty factor)

Number of contacts in series at DC-22A, 24 V Number of contacts in series at DC-23A, 48 V 2 Number of contacts in series at DC-23A, 60 V Number of contacts in series at DC-23A, 60 V Number of contacts in series at DC-23A, 60 V Number of contacts in series at DC-23A, 60 V Number of contacts in series at DC-23A, 60 V Number of contacts in series at DC-23A, 240 V Sated making capacity up to 680 V (cos phi to IEC/EN 60947-3) Voltage per contact pair in series Control circuit reliability I failure per 100,000 switching operations statistically determined, at 24 V D mA/ Number of auxiliary contacts (change-over contacts) Number of auxiliary contacts (normally closed contacts) Number of auxiliary contacts (normally closed contacts) Number of auxiliary contacts (normally closed contacts) Actuator Actuator color Actuator type Design verification Equipment heat dissipation, current-dependent Pvid Heat dissipation, current-dependent Pvid Rated operational current for specified heat dissipation (In) Static heat dissipation on resistance 10.2.3 I Verification of thermal stability of enclosures 10.2.3 Verification of thermal stability of enclosures 10.2.3 Resistance to ultra-violet (UV) radiation 10.2.5 Eting 10.2.8 Resistance to ultra-violet (UV) radiation 10.2.8 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.2.8 Inscriptions 10.2.9 Verification of contacts the end of the end is subtinged on the end stability of enclosures 10.2.8 Meets the product standard's requirements. 10.2.9 Long on on apply, since the enters switchgear needs to be evaluated. 10.2.1 Verification of resistance of insulating materials to normal heat 10.2.2 Inscriptions 10.2.2 Verification of thermal stability of enclosures 10.2.3 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.5 Inscriptions
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10.2.6 Mechanical impact Does not apply, since the entire switchgear needs to be evaluated.
11.7
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 provide heat dissipation data for the devices.
10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear nobserved.
10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear nobserved.
10.13 Mechanical function The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013])

[sees.e.]	
Version as main switch	Yes
Version as maintenance-/service switch	Yes
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	690
Rated operating voltage	V	690 - 690
Rated permanent current lu	Α	20
Rated permanent current at AC-23, 400 V	Α	13.3
Rated permanent current at AC-21, 400 V	Α	20
Rated operation power at AC-3, 400 V	kW	5.5
Rated short-time withstand current lcw	kA	0.32
Rated operation power at AC-23, 400 V	kW	5.5
Switching power at 400 V	kW	5.5
Conditioned rated short-circuit current Iq	kA	6
Number of poles		3
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		Complete device in housing
Suitable for floor mounting		Yes
Suitable for front mounting 4-hole		No
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
Degree of protection (IP), front side		IP65
Degree of protection (NEMA)		12