DATASHEET - T5-1-102/I5/SVB

Main switch, T5, 100 A, surface mounting, 1 contact unit(s), 2 pole, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position



Part no. T5-1-102/I5/SVB

207273

EL Number 1417163

(Norway)

(Norway)	
General specifications	
Product name	Eaton Moeller® series T5 Main switch
Part no.	T5-1-102/I5/SVB
EAN	4015082072735
Product Length/Depth	280 millimetre
Product height	162 millimetre
Product width	200 millimetre
Product weight	1.642 kilogram
Certifications	IEC/EN 60204 VDE 0660 IEC/EN 60947 IEC/EN 60947-3
Product Tradename	T5
Product Type	Main switch
Product Sub Type	None
Catalog Notes	Rated Short-time Withstand Current (Icw) for a time of 1 second
Features & Functions	
Features	Version as main switch Version as maintenance-/service switch Version as emergency stop installation
Fitted with:	Red rotary handle and yellow locking ring
Functions	Interlockable Emergency switching off function
Locking facility	Lockable in the 0 (Off) position
Number of poles	2
General information	
Degree of protection	NEMA 12
Degree of protection (front side)	IP65
Lifespan, mechanical	500,000 Operations
Mounting method	Surface mounting
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)	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	-25 °C
Ambient operating temperature (enclosed) - max	40 °C
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78

Terminal capacities	
Terminal capacity	2 x (1.5 - 10) mm², flexible with ferrule to DIN 46228
	1 x (1 - 25) mm², flexible with ferrules to DIN 46228 2 x (2.5 - 66) mm², solid or stranded
Screw size	1 x (2.5 - 35) mm², solid or stranded M6, Terminal screw
Tightening torque	4 Nm, Screw terminals
rightening torque	35.4 lb-in, Screw terminals
Electrical rating	
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	760 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	740 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	590 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	420 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	71 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	55 A
Rated operational current (Ie) at AC-3, 500 V	44 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	17 A
Rated operational current (Ie) at AC-21, 440 V	100 A
Rated operational current (Ie) at AC-23A, 230 V	100 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	100 A
Rated operational current (Ie) at AC-23A, 500 V	55 A
Rated operational current (Ie) at AC-23A, 690 V	32 A
Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms	80 A
Rated operational current (Ie) star-delta at AC-3, 220/230 V	100 A
Rated operational current (Ie) star-delta at AC-3, 380/400 V	95.3 A
Rated operational current (Ie) star-delta at AC-3, 500 V	76.2 A
Rated operational current (Ie) star-delta at AC-3, 690 V	29.4 A
Rated operational power at AC-3, 380/400 V, 50 Hz	30 kW
Rated operational power at AC-3, 415 V, 50 Hz	30 kW
Rated operational power at AC-3, 500 V, 50 Hz	30 kW
Rated operational power at AC-3, 690 V, 50 Hz	15 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	30 kW
Rated operational power at AC-23A, 400 V, 50 Hz	55 kW
Rated operational power at AC-23A, 500 V, 50 Hz	37 kW
Rated operational power at AC-23A, 690 V, 50 Hz	30 kW
Rated operational power star-delta at 220/230 V, 50 Hz	30 kW
Rated operational power star-delta at 380/400 V, 50 Hz	45 kW
Rated operational power star-delta at 500 V, 50 Hz Rated operational power star-delta at 690 V, 50 Hz	45 kW 22 kW
Rated uninterrupted current (Iu)	100 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating	nated animetrupled current to 3 Specified for max. cross section.
Rated conditional short-circuit current (Ig)	2 kA
Rated short-time withstand current (Icw)	1,7 kA, Contacts, 1 second 1.7 kA
Short-circuit protection rating	100 A gG/gL, Fuse, Contacts
Switching capacity	
Load rating	2 x I# (with intermittent operation class 12, 25 % duty factor) 1.3 x I# (with intermittent operation class 12, 60 % duty factor) 1.6 x I# (with intermittent operation class 12, 40 % duty factor)
Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	950 A
Voltage per contact pair in series	60 V
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

observed.	Actuator	
Design verification Equipment heat dissipation, current-dependent Pvid 7.5 W Heat dissipation capacity Pdiss 0W Heat dissipation capacity Pdiss 0W Heat dissipation per pole, current-dependent Pvid 7.5 W Heat dissipation per pole, current-dependent Pvid 7.5 W Rated operational current for specified heat dissipation (In) 100 A Static heat dissipation, non-current-dependent Pvs 0W 10.22 Corrosion resistance 10.23.1 Verification of thermal stability of enclosures Meets the product standard's requirements. 10.23.2 Verification of tremal stability of enclosures Meets the product standard's requirements. 10.23.3 Verification of resistance of line sulating materials to normal heat Meets the product standard's requirements. 10.24.4 Resistance to ultra-violet (IV)? radiation W/ resistance environments. 10.24.8 Resistance to ultra-violet (IV)? radiation W/ resistance only in connection with protective shield. 10.25 Lifting Does not apply, since the entire switchgear needs to be evaluated. 10.27 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. 10.9 Power-frequency electric strength Is the panel builder's responsibility. 10.9 Power-frequency electric strength Is the panel builder's responsibility. 10.9 Power-frequency electric strength Is the panel builder's responsibility. 10.9 Power-frequency electric strength Is the panel builder's responsibility. 10.9 Power-frequency electric strength Is the panel builder's responsibility. 10.9 Power-frequency electric strength Is the panel builder's responsibility. 10.9 Power-frequ	Actuator color	Red
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10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Mechanical function 10.15 Internal electrical circuits and connections 10.16 Is the panel builder's responsibility. 10.17 Is the panel builder's responsibility. 10.18 Is the panel builder is responsibility. 10.19 Is the panel builder is responsibility. 10.10 Is the panel builder is responsibility. 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.15 The device meets the requirements, provided the information in the instruction	10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.7 Internal electrical circuits and connections 1s the panel builder's responsibility. 10.8 Connections for external conductors 1s the panel builder's responsibility. 10.9.2 Power-frequency electric strength 1s the panel builder's responsibility. 10.9.3 Impulse withstand voltage 1s the panel builder's responsibility. 1o.9.4 Testing of enclosures made of insulating material 1s the panel builder's responsibility. 1o.10 Temperature rise The panel builder is responsibile for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. 1o.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must be observed. 1o.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must be observed. 1o.13 Mechanical function The device meets the requirements, provided the information in the instruction	10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Strength builder's responsibility. 11.15 Is the panel builder's responsibility. 12.16 Is the panel builder is responsibility. 13.17 Is the panel builder is responsibility. 14.18 Is the panel builder is responsibility. 15.19 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 16.19 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 17.19 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 18.10 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 19.10 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Is the panel builder's responsibility. The specifications for the switchgear must be observed.	10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.15 The panel builder's responsibility. The specifications for the switchgear must be observed. 10.15 The panel builder's responsibility. The specifications for the switchgear must be observed. 10.16 The panel builder's responsibility. The specifications for the switchgear must be observed. 10.17 The device meets the requirements, provided the information in the instruction	10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
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10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise The panel builder is responsibility. 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	10.9.2 Power-frequency electric strength	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	10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
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observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	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	

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])

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	1	690
Rated operating voltage	V	1	690 - 690
Rated permanent current lu	А	١	100
Rated permanent current at AC-23, 400 V	А	١	100
Rated permanent current at AC-21, 400 V	А	١	100
Rated operation power at AC-3, 400 V	k¹	W	30
Rated short-time withstand current lcw	k	Α	1.7
Rated operation power at AC-23, 400 V	k¹	W	55
Switching power at 400 V	k¹	W	55
Conditioned rated short-circuit current Iq	k	Α	2
Number of poles			2
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