Non-standard switch, T3, 32 A, rear mounting, Basic switch, 7 contact unit(s)



Part no. T3-7-SOND*/XZ 907908

General specifications	
Product name	Eaton Moeller® series T3 Non-standard switch
Part no.	T3-7-SOND*/XZ
Product Length/Depth	120 millimetre
Product height	54 millimetre
Product width	61 millimetre
Product weight	0.372 kilogram
Certifications	IEC/EN 60947-3 IEC/EN 60204 IEC/EN 60947 VDE 0660
Product Tradename	T3
Product Type	Non-standard switch
Product Sub Type	None
Catalog Notes	Customized version according to form Rated Short-time Withstand Current (Icw) for a time of 1 second
General information	
Degree of protection	NEMA Other
Degree of protection (front side)	IP00
Lifespan, mechanical	500,000 Operations
Mounting method	Rear mounting
Mounting position	As required
Number of contact units	7
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 Intermediate mounting
Туре	Basic switch
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	50 °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	$2 \times (0.75 - 4) \text{ mm}^2$, flexible with ferrules to DIN 46228 $1 \times (0.75 - 4) \text{ mm}^2$, flexible with ferrules to DIN 46228 $2 \times (1 - 6) \text{ mm}^2$, solid or stranded $1 \times (1 - 6) \text{ mm}^2$, solid or stranded
Screw size	M4, Terminal screw
Tightening torque	1.6 Nm, Screw terminals
Electrical rating	
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	260 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	260 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	240 A

Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	170 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	23.7 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	23.7 A
Rated operational current (Ie) at AC-3, 500 V	23.7 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	14.7 A
Rated operational current (Ie) at AC-21, 440 V	32 A
Rated operational current (Ie) at AC-23A, 230 V	32 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	32 A
Rated operational current (Ie) at AC-23A, 500 V	26.4 A
Rated operational current (Ie) at AC-23A, 690 V	17 A
Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms	25 A
Rated operational current (Ie) at DC-13, control switches L/R = 50 ms	20 A
Rated operational current (Ie) at DC-21, 240 V	1 A
Rated operational current (Ie) at DC-23A, 24 V	25 A
Rated operational current (Ie) at DC-23A, 48 V	25 A
Rated operational current (Ie) at DC-23A, 60 V	25 A
Rated operational current (Ie) at DC-23A, 120 V	12 A
Rated operational current (Ie) at DC-23A, 240 V	5 A
Rated operational current (Ie) star-delta at AC-3, 220/230 V	32 A
Rated operational current (Ie) star-delta at AC-3, 380/400 V	32 A
Rated operational current (Ie) star-delta at AC-3, 500 V	32 A
Rated operational current (Ie) star-delta at AC-3, 690 V	25.5 A
Rated operational power at AC-3, 380/400 V, 50 Hz	11 kW
Rated operational power at AC-3, 415 V, 50 Hz	11 kW
Rated operational power at AC-3, 500 V, 50 Hz	15 kW
Rated operational power at AC-3, 690 V, 50 Hz	11 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	7.5 kW
Rated operational power at AC-23A, 400 V, 50 Hz	15 kW
Rated operational power at AC-23A, 500 V, 50 Hz	15 kW
Rated operational power at AC-23A, 690 V, 50 Hz	15 kW
Rated operational power star-delta at 220/230 V, 50 Hz	7.5 kW
Rated operational power star-delta at 380/400 V, 50 Hz	15 kW
Rated operational power star-delta at 500 V, 50 Hz	18.5 kW
Rated operational power star-delta at 690 V, 50 Hz	22 kW
Rated operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (Iu)	32 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating	
Rated conditional short-circuit current (Iq)	1 kA
Rated short-time withstand current (Icw)	0.65 kA
nated short and warsand current flow)	650 A, Contacts, 1 second
Short-circuit protection rating	35 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)
Number of contacts in series at DC-21A, 240 V	1
Number of contacts in series at DC-23A, 24 V	1
Number of contacts in series at DC-23A, 48 V	2
Number of contacts in series at DC-23A, 60 V	3
Number of contacts in series at DC-23A, 120 V	3
Number of contacts in series at DC-23A, 240 V	5
Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	320 A
Voltage per contact pair in series	60 V
Contacts	

Actuator color Actuator type Short thumb-grip	Control circuit reliability	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
Number of auxiliary contacts (normally open contacts) Cicutor Actuator corlor Actuator type Sesign verification Equipment heat dissipation, current-dependent Pvid 1.1 W 1.2 Actuator type State dissipation open pole, current-dependent Pvid 1.1 W 1.2 Actuator type State dissipation open pole, current-dependent Pvid 1.1 W 1.2 Actuator type OW State dissipation non-current-dependent Pvid 1.2 Actuator type pole, current-dependent Pvid 1.2 Actuator type pole, current-dependent Pvid 1.2 Actuator dissipation, non-current-dependent Pvid 1.2 Actuator type pole, current-dependent Pvid 1.2 Actuator type pole, current-dependent Pvid 1.2 Actuator type pole, current-dependent Pvid 1.2 Actuator dissipation, non-current-dependent Pvid 1.2 Actuator type pole, current-dependent Pvid 1.2 Actuator dissipation, non-current-dependent Pvid Meets the product standard's requirements. 1.2 Actuator dissipation of resistance of insulating materials to normal heat 1.2 Actuator type pole, since the entire switchgear needs to be evaluated. 1.2 Actuator type pole, since the entire switchgear needs to be evaluated. 1.2 Actuator type pole, since the entire switchgear needs to be evaluated. 1.2 Actuator type pole, since the entire switchgear needs to be evaluated. 1.2 Actuator type pole, since the entire switchgear needs to be evaluated. 1.2 Actuator type pole pole, since the entire switchgear needs to be evaluated. 1.2 Actuator type pole pole pole pole pole pole pole po	Number of auxiliary contacts (change-over contacts)	0
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Does not apply, since the entire switchgear needs to be evaluated. 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 Does not apply, since the entire switchgear needs to be evaluated. Is the panel builder's responsibility. Is the panel builder's responsibility. Is the panel builder's responsibility. The panel builder is responsibility. Is the panel builder is responsibility. The specifications for the switchgear must observed. Is the panel builder's responsibility. The specifications for the switchgear must observed. The device meets the requirements, provided the information in the instruction	10.4 Clearances and creepage distances	Meets the product standard's requirements.
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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 11.15 Is the panel builder's responsibility. The specifications for the switchgear must observed. 10.13 Mechanical function 15 the panel builder's responsibility. The specifications for the switchgear must observed. 16 the panel builder's responsibility. The specifications for the switchgear must observed. 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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observed. 10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
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	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		No
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	32
Rated permanent current at AC-23, 400 V	Α	32
Rated permanent current at AC-21, 400 V	Α	32
Rated operation power at AC-3, 400 V	kW	<i>N</i> 11
Rated short-time withstand current lcw	kA	A 0.65

Rated operation power at AC-23, 400 V	kW	15
Switching power at 400 V	kW	15
Conditioned rated short-circuit current Iq	kA	1
Number of poles		
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		Yes
Suitable for front mounting 4-hole		No
Suitable for front mounting centre		No
Suitable for distribution board installation		No
Suitable for intermediate mounting		Yes
Colour control element		Black
Type of control element		Short thumb-grip
Interlockable		No
Type of electrical connection of main circuit		Screw connection
With pre-assembled cabling		No
Degree of protection (IP), front side		IP00
Degree of protection (NEMA)		Other
Width	mm	61
Height	mm	54
Depth	mm	120
Width in number of modular spacings		