DATASHEET - T3-3-8228/E

Reversing switches, T3, 32 A, flush mounting, 3 contact unit(s), Contacts: 5, 45 °, momentary, With 0 (Off) position, with spring-return from both directions to 0, 1>0<2, Design number 8228



Part no.

T3-3-8228/E 002538

General specifications	
Product name	Eaton Moeller® series T3 Reversing switch
Part no.	T3-3-8228/E
EAN	4015080025382
Product Length/Depth	102 millimetre
Product height	54 millimetre
Product width	61 millimetre
Product weight	0.212 kilogram
Certifications	UL Category Control No.: NLRV CE CSA-C22.2 No. 60947-4-1-14 CSA CSA Class No.: 3211-05 CSA-C22.2 No. 94 UL 60947-4-1 IEC/EN 60204 CSA File No.: 012528 UL File No.: E36332 IEC/EN 60947 UL IEC/EN 60947-3 VDE 0660 UL CSA
Product Tradename	Т3
Product Type	Reversing switch
Product Sub Type	None
Catalog Notes	Rated Short-time Withstand Current (Icw) for a time of 1 second
Features & Functions	
Enclosure material	Plastic
Fitted with:	0 (off) position Black thumb grip and front plate Retraction in 0-position
Inscription	1>0<2
Number of poles	3
General information	
Degree of protection	IP65 NEMA 1 NEMA 12
Degree of protection (front side)	IP65 NEMA 12
Lifespan, mechanical	500,000 Operations
Model	Reversing switch
Mounting method	Flush mounting
Mounting position	As required
Number of contact units	3
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	Branch circuits, suitable as motor disconnect, (UL/CSA)
	Front mounting

Joint and a section particle and a section pa	Switching angle	45 °
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Reted operational current (le) at AC-35, 600 V, 690 V 237 A Reted operational current (le) at AC-34, 400 V 32 A Reted operational current (le) at AC-32A, 230 V 32 A Reted operational current (le) at AC-32A, 400 V, 415 V 22 A Reted operational current (le) at AC-32A, 690 V 28 A Reted operational current (le) at AC-32A, 690 V 28 A Reted operational current (le) at AC-32A, 690 V 28 A Reted operational current (le) at AC-32A, 690 V 28 A Reted operational current (le) at DC-13, dorbrak switches Vr = 1 ms 25 A Reted operational current (le) at DC-32A, 290 V 29 A Reted operational current (le) at DC-32A, 290 V 29 A Reted operational current (le) at DC-32A, 49 V 25 A Reted operational current (le) at DC-32A, 49 V 25 A Reted operational current (le) at DC-32A, 49 V 25 A Reted operational current (le) at DC-32A, 49 V 25 A Reted operational current (le) at DC-32A, 49 V 25 A Reted operational current (le) at DC-32A, 40 V 25 A Reted operational current (le) at DC-32A, 40 V 26 A Reted operational current (le) at DC-32A, 40 V 27 A Reted operational pover at AC-33, 45 V, 50 Hz	Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	23.7 A
Rated operational current (le) at AC:3, 660 V, 690 V Image: Comparison of Current (le) at AC:34, 460 V, 415 V Rated operational current (le) at AC:32A, 230 V Image: Comparison of Current (le) at AC:32A, 430 V, 415 V Rated operational current (le) at AC:32A, 630 V Image: Comparison of Current (le) at AC:32A, 630 V Rated operational current (le) at AC:32A, 630 V Image: Comparison of Current (le) at AC:32A, 630 V Rated operational current (le) at AC:32A, 630 V Image: Comparison of Current (le) at AC:32A, 630 V Rated operational current (le) at DC:1, lead-break switches (r = 1 ms) Image: Comparison of Current (le) at DC:32A, 74V Rated operational current (le) at DC:32A, 43V Image: Comparison of Current (le) at DC:32A, 12V V Rated operational current (le) at DC:32A, 42V Image: Comparison of Current (le) at DC:32A, 12V V Rated operational current (le) at DC:32A, 42V V Image: Comparison of Current (le) at DC:32A, 12V V Rated operational current (le) at DC:32A, 42V V Image: Comparison of Current (le) at DC:32A, 12V V Rated operational current (le) at DC:32A, 42V V Image: Comparison of Current (le) at DC:32A, 14V V Rated operational current (le) at DC:32A, 42V V Image: Comparison of Current (le) at DC:32A, 14V V Rated operational current (le) at DC:32A, 42V V Image: Comparison of Current (le) at DC:3A, 14V V, 50 Hz Rated operational power at AC:3A, 45V V, 50 Hz <td>Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V</td> <td>23.7 A</td>	Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	23.7 A
Rated operational current (le) at AC-21, 440 V 22 Rated operational current (le) at AC-23A, 200 V, 415 V 22 Rated operational current (le) at AC-23A, 800 V, 415 V 22 Rated operational current (le) at AC-23A, 800 V 28 Rated operational current (le) at AC-23A, 800 V 28 Rated operational current (le) at AC-23A, 800 V 28 Rated operational current (le) at DC-1, load-brack switches Vr = 1 ms 28 Rated operational current (le) at DC-1, load-brack switches Vr = 1 ms 28 Rated operational current (le) at DC-23A, 240 V 28 Rated operational current (le) at DC-23A, 240 V 28 Rated operational current (le) at DC-23A, 240 V 28 Rated operational current (le) at DC-23A, 240 V 28 Rated operational current (le) at DC-23A, 240 V 28 Rated operational current (le) at DC-23A, 240 V 28 Rated operational current (le) at DC-23A, 240 V 28 Rated operational current (le) at DC-23A, 240 V 28 Rated operational purent at AC-33, 800 V, 50 Hz 11 kW Rated operational power at AC-34, 250 V, 50 Hz 11 kW Rated operational power at AC-23A, 200 V, 50 Hz 15 kW Rated operational power at AC-23A, 200 V, 50 Hz <td>Rated operational current (Ie) at AC-3, 500 V</td> <td>23.7 A</td>	Rated operational current (Ie) at AC-3, 500 V	23.7 A
Rated operational current (le) at AC-23A, 230 V232 ARated operational current (le) at AC-23A, 600 V, 415 V26.4 ARated operational current (le) at AC-23A, 600 V26.4 ARated operational current (le) at AC-23A, 600 V26.4 ARated operational current (le) at DC-1, 240 V25.4Rated operational current (le) at DC-21, 240 V20.0Rated operational current (le) at DC-23A, 48 V25.4Rated operational power at AC-3, 380400 V, 50 Hz12.4WRated operational power at AC-3, 415 V, 50 Hz11.4WRated operational power at AC-3, 415 V, 50 Hz11.4WRated operational power at AC-23A, 500 V, 50 Hz15.4WRated operational power at AC-23A, 500 V, 50 Hz15.4W <trt< td=""><td>Rated operational current (Ie) at AC-3, 660 V, 690 V</td><td>14.7 A</td></trt<>	Rated operational current (Ie) at AC-3, 660 V, 690 V	14.7 A
Rated operational current (le) at AC-23A, 400 V, 415 V26 ARated operational current (le) at AC-23A, 600 V26 A ARated operational current (le) at AC-23A, 600 V17 ARated operational current (le) at DC-1, toad-brack switches (l' = 1 ms25 ARated operational current (le) at DC-21, 200 V20 ARated operational current (le) at DC-23A, 240 V26 ARated operational current (le) at DC-23A, 240 V25 ARated operational current (le) at DC-23A, 60 V25 ARated operational current (le) at DC-23A, 240 V25 ARated operational power at AC-3, 380 (400 V, 50 Hz)11 KWRated operational power at AC-3, 240 V, 50 Hz11 KWRated operational power at AC-3, 240 V, 50 Hz11 KWRated operational power at AC-33, 450 V, 50 Hz15 KWRated operational power at AC-33, 450 V, 50 Hz15 KWRated operational power at AC-23A, 2002 V, 50 Hz15 KWRated operational power at AC-33, 2002 V, 50 Hz15 KWRated operational power at AC-33, 800 V, 50 Hz15 KWRated operational power at AC-33, 800 V, 50 Hz15 KWRated operational power at AC-33, 800 V, 50 Hz15 KWRated operational power at AC-30, 800 V, 50 Hz15 KWRated operational power at AC-30, 800 V, 50	Rated operational current (Ie) at AC-21, 440 V	32 A
Rated operational current (le) at AC-23A, 500 V264 ARated operational current (le) at AC-23A, 500 V17 ARated operational current (le) at DC-1, load-break switches l/R = 50 ms25 ARated operational current (le) at DC-13, control switches l/R = 50 ms20 ARated operational current (le) at DC-21, 240 V1 ARated operational current (le) at DC-23A, 24 V25 ARated operational current (le) at DC-23A, 48 V25 ARated operational current (le) at DC-23A, 48 V25 ARated operational current (le) at DC-23A, 40 V25 ARated operational current (le) at DC-23A, 24 V25 ARated operational current (le) at DC-23A, 20 V25 ARated operational power at AC-3, 360400 V, 50 Hz1 kWRated operational power at AC-3, 360400 V, 50 Hz1 kWRated operational power at AC-23A, 200230 V, 50 Hz1 kWRated operational power at AC-23A, 500 V, 50 Hz1 kWRated operational power at AC-23A, 500 V, 50 Hz1 kWRated operational power at AC-23A, 500 V, 50 Hz1 kWRated operational power at AC-23A, 500 V, 50 Hz1 kWRated operational power at AC-23A, 500 V, 50 Hz1 kWRated operational power at AC-23A, 500 V, 50 Hz1 kWRated operational power at AC-23A, 500 V, 50 Hz1 kWRated operational power star-delta at 38	Rated operational current (Ie) at AC-23A, 230 V	32 A
Rated operational current (le) at AC-23A, 500 V264 ARated operational current (le) at AC-23A, 500 V17 ARated operational current (le) at DC-1, load-break switches l/R = 50 ms25 ARated operational current (le) at DC-13, control switches l/R = 50 ms20 ARated operational current (le) at DC-21, 240 V1 ARated operational current (le) at DC-23A, 24 V25 ARated operational current (le) at DC-23A, 48 V25 ARated operational current (le) at DC-23A, 48 V25 ARated operational current (le) at DC-23A, 40 V25 ARated operational current (le) at DC-23A, 24 V25 ARated operational current (le) at DC-23A, 20 V25 ARated operational power at AC-3, 360400 V, 50 Hz1 kWRated operational power at AC-3, 360400 V, 50 Hz1 kWRated operational power at AC-23A, 200230 V, 50 Hz1 kWRated operational power at AC-23A, 500 V, 50 Hz1 kWRated operational power at AC-23A, 500 V, 50 Hz1 kWRated operational power at AC-23A, 500 V, 50 Hz1 kWRated operational power at AC-23A, 500 V, 50 Hz1 kWRated operational power at AC-23A, 500 V, 50 Hz1 kWRated operational power at AC-23A, 500 V, 50 Hz1 kWRated operational power at AC-23A, 500 V, 50 Hz1 kWRated operational power star-delta at 38	Rated operational current (le) at AC-23A, 400 V, 415 V	32 A
Rated operational current (le) at CC-23A, 690 V17 ARated operational current (le) at DC-1, load-break switches l/r = 1 ms25 ARated operational current (le) at DC-13, control switches l/r = 50 ms20 ARated operational current (le) at DC-23A, 24 V1ARated operational current (le) at DC-23A, 48 V25 ARated operational current (le) at DC-23A, 48 V25 ARated operational current (le) at DC-23A, 40 V25 ARated operational current (le) at DC-23A, 24 V25 ARated operational current (le) at DC-23A, 40 V25 ARated operational current (le) at DC-23A, 240 V5 ARated operational current (le) at DC-23A, 240 V25 ARated operational current (le) at DC-23A, 240 V25 ARated operational current (le) at DC-23A, 240 V5 ARated operational power at AC-3, 380,400 V, 50 Hz11 kWRated operational power at AC-3, 240, V50 Hz11 kWRated operational power at AC-3, 240, V50 Hz15 kWRated operational power star-delta at 350, V50 Hz15 kW<	Rated operational current (Ie) at AC-23A, 500 V	26.4 A
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Rated operational power star-delta at 500 V, 50 Hz Image: Comparison of the star star star star star star star star	Rated operational power star-delta at 220/230 V, 50 Hz	7.5 kW
Rated operational power star-delta at 690 V, 50 Hz 22 kW Rated operational voltage (Ue) at AC - max 600 V Rated uninterrupted current (Iu) 32 A	Rated operational power star-delta at 380/400 V, 50 Hz	15 kW
Rated operational voltage (Ue) at AC - max 600 V Rated uninterrupted current (Iu) 32 A	Rated operational power star-delta at 500 V, 50 Hz	18.5 kW
Rated uninterrupted current (Iu) 32 A	Rated operational power star-delta at 690 V, 50 Hz	22 kW
	Rated operational voltage (Ue) at AC - max	690 V
Uninterrupted current lu is specified for max. cross-section.	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 (Ig)	1 kA
Rated short-time withstand current (Icw)	650 A, Contacts, 1 second
Short-circuit current rating (basic rating)	5 kA, SCCR (UL/CSA) 40A, max. Fuse, SCCR (UL/CSA)
Short-circuit current rating (high fault)	40 A, Class J, max. Fuse, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA)
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) 1.6 x I# (with intermittent operation class 12, 40 % duty factor) 1.3 x I# (with intermittent operation class 12, 60 % 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
Switching capacity (main contacts, general use)	25 A, Rated uninterrupted current max. (UL/CSA)
Switching capacity (auxiliary contacts, general use)	10A, IU, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	P600 (UL/CSA) A600 (UL/CSA)
Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	320 A
Voltage per contact pair in series	60 V
Motor rating	
Assigned motor power at 115/120 V, 60 Hz, 1-phase	1.5 HP
Assigned motor power at 200/208 V, 60 Hz, 1-phase	3 HP
Assigned motor power at 200/208 V, 60 Hz, 3-phase	3 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase	3 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase	3 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase	7.5 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase	10 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	5
Actuator	
Actuator function	Spring-return from both directions to 0 With 0 (Off) position Momentary
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	1.1 W
Rated operational current for specified heat dissipation (In)	32 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.
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])

Model		Reversing switch
Number of poles		3
With zero (off) position		Yes
With retraction in 0-position		Yes
Rated permanent current lu	А	32
Rated operation current le at AC-3, 400 V	А	23.7
Rated operation power at AC-3, 400 V	kW	12
Degree of protection (IP), front side		IP65
Degree of protection (NEMA), front side		12
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
Suitable for floor mounting		No
Suitable for front mounting		Yes
Suitable for distribution board installation		No
Suitable for intermediate mounting		No
Complete device in housing		No
Housing material		Plastic
Type of control element		Short thumb-grip
Type of electrical connection of main circuit		Screw connection