DATASHEET - T3-3-8401/I2

Reversing switches, T3, 32 A, surface mounting, 3 contact unit(s), Contacts: 5, 60 °, maintained, With 0 (Off) position, 1-0-2, Design number 8401



Part no.

T3-3-8401/l2 207188

General specifications	
Product name	Eaton Moeller® series T3 Reversing switch
Part no.	T3-3-8401/I2
EAN	4015082071882
Product Length/Depth	181 millimetre
Product height	127 millimetre
Product width	100 millimetre
Product weight	0.563 kilogram
Certifications	UL File No.: E36332 CSA-C22.2 No. 94 CSA UL Category Control No.: NLRV IEC/EN 60947-3 CSA File No.: 012528 IEC/EN 60947 VDE 0660 CSA-C22.2 No. 60947-4-1-14 UL UL UL UL CE IEC/EN 60204 CSA Class No.: 3211-05
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
Features	Complete device in housing
Fitted with:	0 (off) position Black thumb grip and front plate
Inscription	1-0-2
Number of poles	3
General information	
Degree of protection	NEMA 1 IP65 NEMA 12
Degree of protection (front side)	IP65 NEMA 12
Lifespan, mechanical	500,000 Operations
Model	Reversing switch
Mounting method	Surface mounting
Mounting position	As required
Number of contact units	3
Operating frequency	1200 Operations/h
Overvoltage category	
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	12 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
Suitable for	Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA)
Switching angle	60 °

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Туре	Reversing switch
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
The section of the se	Damp heat, constant, to IEC 60068-2-78
Terminal capacities	
Terminal capacity (flexible with ferrule)	2 x (0.75 - 4) mm ² , ferrules to DIN 46228 1 x (0.75 - 4) mm ² , ferrules to DIN 46228
Terminal capacity (solid/flexible with ferrule AWG)	14 - 10
Terminal capacity (solid/stranded)	1 x (1 - 6) mm ² 2 x (1 - 6) mm ²
Screw size	M4, Terminal screw
Tightening torque	1.6 Nm, Screw terminals
	17.7 lb-in, 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 (le)	32 A at AC-3, 230 V star-delta 32 A at AC-3, 400 V star-delta 25.5 A at AC-3, 690 V star-delta 32 A at AC-3, 500 V star-delta
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 $L/R = 50 \text{ ms}$	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 power at AC-3, 380/400 V, 50 Hz	12 kW
Rated operational power at AC-3, 415 V, 50 Hz	11 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.

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Switching capacityIntermediate and a sector of a sect	Short-circuit current rating (high fault)	
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Number of contacts in series at DC-20, 260 V Image: DC-20, 260 V Image: DC-20, 260 V Switching capacity (main contacts, general use) Image: DC-20, 260 V Image: DC-20, 260 V Switching capacity (usuilary contacts, general use) Image: DC-20, 260 V Image: DC-20, 260 V Switching capacity (usuilary contacts, general use) Image: DC-20, 270 V Image: DC-20, 270 V Switching capacity (usuilary contacts, general use) Image: DC-20, 270 V Image: DC-20, 270 V Switching capacity (usuilary contacts, general use) Image: DC-20, 270 V Image: DC-20, 270 V Switching capacity (usuilary contacts, general use) Image: DC-20, 270 V Image: DC-20, 270 V Switching capacity (usuilary contacts, general use) Image: DC-20, 270 V Image: DC-20, 270 V Assigned notor power at 15/200 V (DH, 1-phase) Image: DC-20, 270 V Image: DC-20, 270 V Assigned notor power at 220, 260 V, DH, 1-phase Image: DC-20, 270 V Image: DC-20, 270 V Assigned notor power at 220, 260 V, DH, 1-phase Image: DC-20, 270 V Image: DC-20, 270 V Assigned notor power at 220, 260 V, DH, 1-phase Image: DC-20, 270 V Image: DC-20, 270 V Assigned notor power at 220, 260 V, DH, 1-phase Image: DC-20, 270 V Image		
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Voltage per contact pair in series 60 V Motor rating 60 V Assigned motor power at 10020 X0 Hz, 1-phase 51 HP Assigned motor power at 20020 X0 Hz, 1-phase 31 HP Assigned motor power at 20020 X0 Hz, 3-phase 31 HP Assigned motor power at 20020 X0 Hz, 3-phase 31 HP Assigned motor power at 20020 X0 Hz, 3-phase 51 HP Assigned motor power at 20020 X0 Hz, 3-phase 51 HP Assigned motor power at 20020 X0 Hz, 3-phase 10 HP Assigned motor power at 20020 X0 Hz, 3-phase 10 HP Control circuit reliability 10 HP Number of auxiliary contacts (change-rover contacts) 10 HP Number of auxiliary contacts (change-rover contacts) 10 HP Number of auxiliary contacts (normally closed contacts) 0 Number of auxiliary contacts (normally copen contacts) 10 HP Actuator 0 Astabor function 10 HP Returb per Doctact (normally copen contacts) 10 H Astabor function 10 H Returb per Doctact (normally copen contacts) 0 Astabor function 10 H <t< td=""><td></td><td>P600 (UL/CSA)</td></t<>		P600 (UL/CSA)
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Assigned motor power at 230/240 V60 Hz, 1-phase IP Assigned motor power at 230/240 V60 Hz, 3-phase IP Assigned motor power at 250/240 V60 Hz, 3-phase IP Assigned motor power at 250/240 V60 Hz, 3-phase IP Assigned motor power at 250/240 V60 Hz, 3-phase IP Assigned motor power at 250/240 V60 Hz, 3-phase IP Contacts IP Contacts IP Contacts Ifailura per 100,000 switching operations statistically determined, at 24 V DC, 00 Number of auxiliary contacts (normally closed contacts) IP Number of auxiliary contacts (normally closed contacts) IP Number of auxiliary contacts (normally closed contacts) IP Actuator function IP Actuator function IP Actuator function IP Equipment heat dissipation, current-dependent Pvid IP Retat dissipation, current-dependent Pvid IP Retat dissipation, non-current-dependent Pvid IP IP IP IP IP IP IP IP IP IP IP<	Assigned motor power at 200/208 V, 60 Hz, 1-phase	3 HP
Assigned motor power at 230/240 v.60 Hz, 3-phase IP Assigned motor power at 450/480 V.60 Hz, 3-phase 7.5 HP Contacts 10 HP Contacts Infairur per 100.000 switching operations statistically determined, at 24 VDC, 10 Control circuit reliability Infairur per 100.000 switching operations statistically determined, at 24 VDC, 10 Number of auxiliary contacts (change-over contacts) Image: Power at 250/240 V.60 Hz, 3-phase Number of auxiliary contacts (change-over contacts) Image: Power at 250/240 V.60 Hz, 3-phase Number of auxiliary contacts (normally closed contacts) Image: Power at 250/240 V.60 Hz, 3-phase Number of auxiliary contacts (normally closed contacts) Image: Power at 250/240 V.60 Hz, 3-phase Actuator function Image: Power at 250/240 V.60 Hz, 3-phase Actuator function Vim 0 (DH) position Actuator function Vim 0 (DH) position Request function Vim 0 (DH) position Heat dissipation, current-dependent Pvid Vim 0 (DH) position Request function Vim 0 (DH) position Heat dissipation per pole, current-dependent Pvid Vim 0 (DH) position Retact dissipation non-current-dependent Pvid Vim 0 (DH) position 102.22 Corrosion resistance Vim 0 (DH) position	Assigned motor power at 200/208 V, 60 Hz, 3-phase	3 HP
Assigned mator power at 480/480 V, 60 H2, 9-phase F Assigned mator power at 575/800 V, 60 H2, 9-phase 10 HP Control circuit reliability Infalure per 100,000 switching operations statistically determined, at 24 VD C, 00 Control circuit reliability Infalure per 100,000 switching operations statistically determined, at 24 VD C, 00 Number of auxiliary contacts (hange-over contacts) 0 Number of auxiliary contacts (normally contacts) 0 Number of auxiliary contacts (normally open contacts) 0 Actuator function VWIND (0ff) position Actuator function WWIND (0ff) position Actuator function NWIND (0ff) position Requestion capacity Pdias 0WIND (0ff) position Heat dissipation, current-dependent Pvid 0WIND (0ff) position Reta operational current for specified heat dissipation (In) Stati heat dissipation, non-current-dependent Pvid ID2.22 Corrosion resistance 0W WIND (0ff) position ID2.32 Verification of transl tability of enclosures WIND (0ff) position ID2.32 Verification of resistance of insulants to normal heat. WIND (0ff) position ID2.32 Verification of resistance of insulants to normal heat. Meets the product standard's requirements.<	Assigned motor power at 230/240 V, 60 Hz, 1-phase	3 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase Image: Control for with reliability 1 here per 100,000 switching operations statistically determined, at 24 V DC, 10 Control circuit reliability 1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 Number of auxiliary contacts (hormelly closed contacts) 0 Number of auxiliary contacts (normelly closed contacts) 0 Number of auxiliary contacts (normelly closed contacts) 0 Autor of auxiliary contacts (normelly closed contacts) Vertex of the 0 (ff) position Autor function Vertex of the 0 (ff) position Actuator function With 0 (ff) position Actuator type With 0 (ff) position Design verification With 0 (ff) position Rated operational current-dependent Pvid With 0 (ff) position Heat dissipation capacity Pdiss 0 With 0 (ff) position Heat dissipation prope, current-dependent Pvid 0 With 0 (ff) position Heat dissipation of nesistance 0 With 0 (ff) position 102.23 Prior Earlie 0 With 0 (ff) position 102.23 Verification of nesistance With 0 (ff) position 102.23 Verification of nesistance With 0 (ff) position 102.23 Verification of nesistance of insulating materials to normal heat <td>Assigned motor power at 230/240 V, 60 Hz, 3-phase</td> <td>3 HP</td>	Assigned motor power at 230/240 V, 60 Hz, 3-phase	3 HP
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Control circuit reliability If all reper 100,000 switching operations statistically determined, at 24 V DC, 00 Number of auxiliary contacts (change-over contacts) Image: Control circuit reliability of contacts) Image: Control circuit reliability of contacts (normally closed contacts) Image: Contact contacts (normally closed contacts) Number of auxiliary contacts (normally closed contacts) Image: Contact contacts (normally open contacts) Image: Contact contacts (normally open contacts) Number of contacts Image: Contact contact contacts (normally open contacts) Image: Contact cont	Assigned motor power at 575/600 V, 60 Hz, 3-phase	10 HP
Number of auxiliary contacts (change-over contacts) noise 0 Number of auxiliary contacts (normally closed contacts) 0 0 Number of auxiliary contacts (normally closed contacts) 0 0 Number of auxiliary contacts (normally closed contacts) 0 0 Number of auxiliary contacts (normally open contacts) 0 0 Number of contacts 0 0 Actuator 0 0 0 Actuator function 0 0 0 Actuator function 0 0 0 Equipment heat dissipation, current-dependent Pvid 0 0 0 Heat dissipation papelo, current-dependent Pvid 0 0 0 0 Rated operational current for specified heat dissipation (In) 0	Contacts	
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Number of contacts Same and the second	Number of auxiliary contacts (normally closed contacts)	0
Actuator With 0 (Off) position Actuator function With 0 (Off) position Actuator function Maintained Actuator function Short thumb-grip Design verification Short thumb-grip Equipment heat dissipation, current-dependent Pvid W Heat dissipation capacity Pdiss W Rated operational current for specified heat dissipation (In) U Static heat dissipation, non-current-dependent Pvid W 10.22 Corrosion resistance W 10.23 Aresist of insul att to abnormal heat/fire by internal elect. effects Meets the product standard's requirements. 10.23 Resist of insul. mat. to abnormal heat/fire by internal elect. effects Meets the product standard's requirements. 10.24 Resistance to ultra-violet (UV) radiation Were standard's requirements. 10.25 Lifting Des not apply, since the entire switchgear needs to be evaluated.	Number of auxiliary contacts (normally open contacts)	0
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Rated operational current for specified heat dissipation (In)32 AStatic heat dissipation, non-current-dependent Pvs0 W10.2.2 Corrosion resistanceMeets the product standard's requirements.10.2.3.1 Verification of thermal stability of enclosuresMeets the product standard's requirements.10.2.3.2 Verification of resistance of insulating materials to normal heatMeets the product standard's requirements.10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effectsMeets the product standard's requirements.10.2.4 Resistance to ultra-violet (UV) radiationMeets the product standard's requirements.10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.10.2.6 Mechanical impactStatic entire switchgear needs to be evaluated.	Heat dissipation capacity Pdiss	0 W
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 Meets the product standard's requirements. 10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 10.2.6 Mechanical impact Get of apply, since the entire switchgear needs to be evaluated.	Heat dissipation per pole, current-dependent Pvid	1.1 W
10.2.2 Corrosion resistanceMeets the product standard's requirements.10.2.3.1 Verification of thermal stability of enclosuresMeets the product standard's requirements.10.2.3.2 Verification of resistance of insulating materials to normal heatMeets the product standard's requirements.10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effectsMeets the product standard's requirements.10.2.4 Resistance to ultra-violet (UV) radiationMeets the product standard's requirements.10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.10.2.6 Mechanical impactMeets the order the entire switchgear needs to be evaluated.	Rated operational current for specified heat dissipation (In)	32 A
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10.2.4 Resistance to ultra-violet (UV) radiationUV resistance only in connection with protective shield.10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.10.2.6 Mechanical impactOes not apply, since the entire switchgear needs to be evaluated.	10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
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.	10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
10.2.6 Mechanical impact Does not apply, since the entire switchgear needs to be evaluated.	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.
10.2.7 Inscriptions Meets the product standard's requirements.	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		No
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		Yes
Suitable for front mounting		No
Suitable for distribution board installation		No
Suitable for intermediate mounting		No
Complete device in housing		Yes
Housing material		Plastic
Type of control element		Short thumb-grip
Type of electrical connection of main circuit		Screw connection