DATASHEET - T0-5-8453/Z

Reversing multi-speed switches, T0, 20 A, rear mounting, 5 contact unit(s), Contacts: 10, 60 °, maintained, With 0 (Off) position, 2-1-0-1-2, Design number 8453

> T0-5-8453/Z 057834



Part no.

General specifications	
Product name	Eaton Moeller® series T0 Reversing multi-speed switch
Part no.	T0-5-8453/Z
EAN	4015080578345
Product Length/Depth	156 millimetre
Product height	48 millimetre
Product width	48 millimetre
Product weight	0.211 kilogram
Certifications	IEC/EN 60947-3 CSA-C22.2 No. 94 CSA Class No.: 3211-05 CSA IEC/EN 60947 CE IEC/EN 60204 CSA-C22.2 No. 60947-4-1-14 UL UL 60947-4-1 VDE 0660 UL Category Control No.: NLRV CSA File No.: 012528 UL File No.: E36332
Product Tradename	ТО
Product Type	Reversing multi-speed 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
Inscription	2-1-0-1-2
Number of poles	3
Switch function type	2 speeds, 2 separate windings
General information	
Degree of protection	NEMA 1 NEMA 12 IP65
Degree of protection (front side)	IP65 NEMA 12
Lifespan, mechanical	400,000 Operations
Model	Pole switch
Mounting method	Rear mounting
Mounting position	As required
Number of contact units	5
Operating frequency	1200 Operations/h
Overvoltage category	III III III III III III III III III II
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	Intermediate mounting Branch circuits, suitable as motor disconnect, (UL/CSA) Ground mounting
Switching angle	60 °

Ture	Deversing multi-speed switch
Туре	Reversing multi-speed 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 (flexible with ferrule)	1 x (0.75 - 2.5) mm ² , ferrules to DIN 46228
Terminal capacity (solid/flexible with ferrule AWG)	2 x (0.75 - 2.5) mm ² , ferrules to DIN 46228
Terminal capacity (solid/stranded)	1 x (1 - 2.5) mm ²
	2 x (1 - 2.5) mm ²
Screw size	M3.5, Terminal screw
Tightening torque	8.8 lb-in, Screw terminals 1 Nm, Screw terminals
Electrical 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 (le)	15.6 A at AC-3, 500 V star-delta 20 A at AC-3, 400 V star-delta 20 A at AC-3, 230 V star-delta 8.5 A at AC-3, 690 V star-delta
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 (Ie) 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 (le) 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 power at AC-3, 380/400 V, 50 Hz	4 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-33, 500 V, 50 Hz	3 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	5.5 kW
Rated operational power at AC-23A, 400 V, 50 Hz Rated operational power at AC-23A, 500 V, 50 Hz	7.5 kW
Rated operational power at AC-23A, 500 V, 50 Hz 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 (lu)	20 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.

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Voltage per contact pair in series 60 V Motor rating 60 V Assigned motor power at 10020 X0 K0 Hz, 1-phase 14P Assigned motor power at 20020 X0 Hz, 1-phase 34P Assigned motor power at 20020 X0 Hz, 3-phase 34P Assigned motor power at 20020 X0 Hz, 3-phase 34P Assigned motor power at 20020 X0 Hz, 3-phase 75 HP Assigned motor power at 20020 X0 Hz, 3-phase 75 HP Control circuit reliability 14P reloaded at the product statistical per determined, at 24 VDC, 10P Assigned motor power at 20020 X0 Hz, 3-phase 60 Control circuit reliability 14P reloaded at the product statistical per determined, at 24 VDC, 10P Number of auxiliary contacts (homealy open contacts) 60 Number of auxiliary contacts (normally open contacts) 60 Number of auxiliary contacts (normally open contacts) 60 Actuator 0 Actuator the dissipation contract/spendent PVid 60 Actuator the dissipation on prodic current-dependent PVid 60 Rest dispontion current-dependent PVid 60 Rest dispontion current for specified heat dissipation (In) 60 V Rest dispon		P300 (UL/CSA)
Absigned motor power at 15/120 V. 60 Hz, 1-phase 6.5 HP Assigned motor power at 200/208 V. 00 Hz, 3-phase 6.5 HP Assigned motor power at 200/208 V. 00 Hz, 3-phase 3 HP Assigned motor power at 200/208 V. 00 Hz, 3-phase 3 HP Assigned motor power at 200/208 V. 00 Hz, 3-phase 3 HP Assigned motor power at 200/208 V. 00 Hz, 3-phase 3 HP Assigned motor power at 200/208 V. 00 Hz, 3-phase 3 HP Assigned motor power at 200/208 V. 00 Hz, 3-phase 3 HP Assigned motor power at 200/208 V. 00 Hz, 3-phase 5 HP Control 3 HP Assigned motor power at 200/208 V. 00 Hz, 3-phase 5 HP Control 5 HP Control cruit reliability 1 failure per 100.000 switching operations statistically determined, at 24 V DC, 10 Number of auxility contracts (normally coated contracts) 0 Number of auxility contracts (normally coated contracts) 0 Actuator function 10 Actuator function 0 Reut displant, current-dependent Pvid 6 Basigned coatesing for current dependent Pvid 0 Reut displanton, current-dependent Pvid 6 <t< td=""><td></td><td></td></t<>		
Asigned motor power at 15/129 V, 60 Hz, 1-phase 0.5 HP Asigned motor power at 200208 V, 60 Hz, 1-phase 1HP Asigned motor power at 200208 V, 60 Hz, 1-phase 3.1HP Asigned motor power at 200208 V, 60 Hz, 1-phase 5.1HP Asigned motor power at 200208 V, 60 Hz, 1-phase 3.1HP Asigned motor power at 200208 V, 60 Hz, 1-phase 3.1HP Asigned motor power at 200208 V, 60 Hz, 3-phase 7.5HP Control circuit reliability 1ailur per 100,000 switching operations statistically determined, at 24 V 0C, 10 Number of auxiliary contacts (hange-over contacts) 0 0 Actuator 0 0 0 Actuator function 0 0 0 Actuator function 0 0 0 Reliabisption, current-dependent Pvid 0 0 0 Reliabisption current-dependent Pvid 0.8W 0 0 Reliabisption current-dep	Voltage per contact pair in series	60 V
Assigned motor power at 200208 V, 60 Hz, 3-phase Assigned motor power at 200208 V, 60 Hz, 3-phase Assigned motor power at 200240 V, 60 Hz, 3-phase Assigned power at 200240 V, 70 Hz,	Motor rating	
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Asigned motor power at 230/240 V60 Hz, 1-phase Asigned motor power at 230/240 V60 Hz, 3-phase Asigned motor power at 230/240 V60 Hz, 3-phase Asigned motor power at 250/240 V60 Hz, 3-phase Control circuit reliability Number of auxiliary contacts (hange-over contacts) Number of auxiliary contacts (hange-over contacts) Number of auxiliary contacts (normally closed contacts)	Assigned motor power at 200/208 V, 60 Hz, 1-phase	1 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 7.5 HP Contacts Infairur per 100.000 switching operations statistically determined, at 24 V DC, 10 Control circuit reliability Infairur per 100.000 switching operations statistically determined, at 24 V DC, 10 Number of auxiliary contacts (change-over contacts) IP Number of auxiliary contacts (normally closed contacts) IP Number of auxiliary contacts (normally closed contacts) IP Actuator IP Actuator function IP Actuator function IP Espineent heat dissipation, current-dependent Pvid IP Heat dissipation per pole, current-dependent Pvid IP Heat dissipation per pole, current-dependent Pvid IP Heat dissipation nor-current-dependent Pvid IP ID 2.22 Corrosion resistance IP ID 2.23 Verification of resistance Insulting materials to normal heat. IP ID 2.23 Verification of resistance Insulting materials to normal heat. IP ID 2.24 Neistance to ultra-viole(UV) radation IP ID 2.25 Urification of resistance Insultantig materials to normal heat. IP	Assigned motor power at 200/208 V, 60 Hz, 3-phase	3 HP
Assigned mator power at 480/480 V, 60 H2, 9-phase 75 HP Assigned mator power at 575/800 V, 60 H2, 3-phase 75 HP Control circuit reliability Infalure per 100,000 switching operations statistically determined, at 24 V D C, 01 Control circuit reliability Infalure per 100,000 switching operations statistically determined, at 24 V D C, 01 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 Maintsined Actuator function Wink 0 (0ff) position Actuator function Short thumb-grip Perspective end (sizpation, current-dependent Pvid) 0 Neat dissipation capachy Pdiss 0W Neat dissipation and current for specified heat dissipation (In) 0W Notact Stander of insultants to ahormal heat/iffe by internal elect. effects 0W Notact Stander of insultants to ahormal heat (Free by internal elect. effects Now Notact Stander of insultants to ahormal heat, 0 internal stability of enclosures 0W Returber of unitary of enclosures 0W Notact Stander of insultants to ahormal heat, 0 internal stability of enclosures <td>Assigned motor power at 230/240 V, 60 Hz, 1-phase</td> <td>1.5 HP</td>	Assigned motor power at 230/240 V, 60 Hz, 1-phase	1.5 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase 7.5 HP Contracts 1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 Number of auxiliary contacts (hange-over contacts) 0 Number of auxiliary contacts (normally closed contacts) 0 Number of auxiliary contacts (normally closed contacts) 0 Number of auxiliary contacts (normally closed contacts) 0 Autor of auxiliary contacts (normally closed contacts) 0 Autor function 0 Actuator 0 Actuator function Ministrained Actuator function Ministrained Buijoment heat dissipation, current-dependent Pvid Ministrained Heat dissipation capacity Pdiss 0 Rated operational current for specified heat dissipation (nin) 05 W 102.23 Areaitace 0 102.23 Verification of nesistance Weats the product standard's requirements. 102.23 Verification of nesistance Weats the product standard's requirements. 102.23 Verification of nesistance on shubility of enclosures Weats the product standard's requirements. 102.23 Verification of nesistance on shubility of enclosures Weats the product standard's requirements. 102.23 Verif	Assigned motor power at 230/240 V, 60 Hz, 3-phase	3 HP
Contracts Insufficient In	Assigned motor power at 460/480 V, 60 Hz, 3-phase	7.5 HP
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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		Pole switch
Number of poles		3
With zero (off) position		Yes
With retraction in 0-position		No
Rated permanent current lu	А	20
Rated operation current le at AC-3, 400 V	А	11.5
Rated operation power at AC-3, 400 V	kW	4
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		Yes
Complete device in housing		No
Housing material		Plastic
Type of control element		Short thumb-grip
Type of electrical connection of main circuit		Screw connection