## **DATASHEET - T0-6-8370/E**

**General specifications** Product name

> Part no. EAN

Changeoverswitches, T0, 20 A, flush mounting, 6 contact unit(s), Contacts: 12, 90 °, maintained, Without 0 (Off) position, 1-2, Design number 8370

T0-6-8370/E

062577



Eaton Moeller® series T0 Changeover switch

Part no.

T0-6-8370/E 4015080625773 Product Length/Depth 124 millimetre 48 millimetre Product height 48 millimetre Product width Product weight 0.16 kilogram UL File No.: E36332 Certifications IEC/EN 60204 UL CSA UL Category Control No.: NLRV VDE 0660 IEC/EN 60947 UL 60947-4-1 CSA-C22.2 No. 94 IEC/EN 60947-3 CSA Class No.: 3211-05 CSA-C22.2 No. 60947-4-1-14 CSA File No.: 012528 CE Product Tradename ТО Product Type Changeover switch Product Sub Type None **Catalog Notes** Rated Short-time Withstand Current (Icw) for a time of 1 second **Features & Functions** Plastic Enclosure material Fitted with: Black thumb grip and front plate 1-2 Inscription 6 Number of poles **General information** Degree of protection NEMA 1 IP65 NEMA 12 Degree of protection (front side) IP65 NEMA 12 Lifespan, mechanical 400,000 Operations Reverser Mounting method Flush mounting As required Mounting position Number of contact units 6 **Operating frequency** 1200 Operations/h ш Overvoltage category 3 Pollution degree 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

90 °

Changeover switch

**Climatic environmental conditions** 

Switching angle

Туре

Model

	25.00
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) mm², ferrules to DIN 46228 2 x (0.75 - 2.5) mm², ferrules to DIN 46228
Terminal capacity (solid/flexible with ferrule AWG)	18 - 14
Terminal capacity (solid/stranded)	1 x (1 - 2.5) mm <sup>2</sup> 2 x (1 - 2.5) mm <sup>2</sup>
Screw size	M3.5, Terminal screw
Tightening torque	1 Nm, Screw terminals 8.8 lb-in, 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)	8.5 A at AC-3, 690 V star-delta 20 A at AC-3, 230 V star-delta 15.6 A at AC-3, 500 V star-delta 20 A at AC-3, 400 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 $L/R = 50 \text{ ms}$	10 A
Rated operational current (Ie) at DC-21, 240 V	1A
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 (Ie) at DC-23A, 60 V	10 A
Rated operational current (Ie) 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-23A, 220/230 V, 50 Hz	3 kW
Rated operational power at AC-23A, 400 V, 50 Hz	5.5 kW
Rated operational power at AC-23A, 500 V, 50 Hz	7.5 kW
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.
Short-circuit rating	
Rated conditional short-circuit current (Iq)	6 kA
Rated short-time withstand current (Icw)	320 A, Contacts, 1 second

Shart-circuit protection rating   100,4,30270 (UUCSA)     Shart-circuit protection rating   20A glight, Fuse, Contacts     Switching capacity   10,4,30270 (UUCSA)     Load rating   13 x Probin intermittent operation clies 12,93 % day factor)     Number of contacts in series at DC-21A, 240 V   1     Number of contacts in series at DC-23A, 94 V   1     Number of contacts in series at DC-23A, 94 V   2     Number of contacts in series at DC-23A, 94 V   3     Number of contacts in series at DC-23A, 94 V   3     Number of contacts in series at DC-23A, 94 V   3     Number of contacts in series at DC-23A, 94 V   3     Number of contacts in series at DC-23A, 94 V   3     Switching capacity (axiliary contacts, general use)   16A, Rated uninterrupted current max. (UUCSA)     Switching capacity (axiliary contacts, general use)   10,1,1,1,1,1,1,1,2,3,1     Switching capacity (axiliary contacts, general use)   100,1,1,1,1,1,1,2,3,1     Switching capacity (axiliary contacts, general use)   05 MP     Assigned motor power at 13/202 V, 00 Hz, 1 phase   05 MP     Assigned motor power at 202 V20 V, 00 Hz, 1 phase   05 MP     Assigned motor power at 202 V20 V, 00 Hz, 1 phase   11 P     Assigned motor power at 202 V20 V, 00 Hz, 1 phase   3.1 P     Assigned motor power at 202 V20 V, 00 Hz, 1 phase   11 P	Short-circuit current rating (basic rating)	50A, max. Fuse, SCCR (UL/CSA) 5 kA, SCCR (UL/CSA)
Switching capacity       1a x F (with intermittent operation class 12, 85 & duty factor)         Load rating       1a x F (with intermittent operation class 12, 85 & duty factor)         Number of contacts in acries at DC 23A, 24 V       1         Number of contacts in acries at DC 23A, 24 V       1         Number of contacts in acries at DC 23A, 24 V       1         Number of contacts in acries at DC 23A, 24 V       2         Number of contacts in acries at DC 23A, 24 V       3         Number of contacts in acries at DC 23A, 240 V       3         Number of contacts in acries at DC 23A, 240 V       5         Switching capacity (mainsy contacts, parent usa)       104, 11, 11, 10, 20, 30         Switching capacity (mainsy contacts, parent usa)       104, 11, 11, 10, 20, 30         Switching capacity (mainsy contacts, parent usa)       104, 11, 11, 10, 20, 30         Switching capacity (mainsy contacts, parent usa)       104, 11, 11, 10, 20, 30         Voltage per contact pair in series       00, 11, 11, 10, 20, 30         Assigned motor power at 130, 20, 20, 20, 80, 14, 15, 148       08, 149         Assigned motor power at 20, 20, 20, 14, 1, 15, 148       15, 149         Assigned motor power at 20, 20, 20, 14, 2, 15, 148       15, 149         Assigned motor power at 20, 20, 20, 14, 2, 15, 148       15, 149	Short-circuit current rating (high fault)	
Lad rating   13 k P (whith intermittent operation class 12, 80 % dury factor)     Number of contacts in series at DC-21A, 240 V   1     Number of contacts in series at DC-22A, 82 V   1     Number of contacts in series at DC-22A, 82 V   2     Number of contacts in series at DC-22A, 82 V   3     Number of contacts in series at DC-22A, 80 V   3     Switching capacity laudiany contacts, general usa)   16 A, Radu uninterrupted current mas. (ULCSA)     Switching capacity laudiany contacts, general usa)   16 A, Radu uninterrupted current mas. (ULCSA)     Switching capacity laudiany contacts, general usa)   16 A, Radu uninterrupted current mas. (ULCSA)     Switching capacity laudiany contacts, general usa)   16 A, Radu uninterrupted current mas. (ULCSA)     Switching capacity laudiany contacts, general usa)   16 A     Switching capacity laudiany contacts, general	Short-circuit protection rating	20 A gG/gL, Fuse, Contacts
Number of contacts in series a D0 21A, 240 V       2 ki Kinhi intermittent operation class 12, 25 % duty factori         Number of contacts in series at D0 23A, 24 V       1         Number of contacts in series at D0 23A, 24 V       2         Number of contacts in series at D0 23A, 84 V       2         Number of contacts in series at D0 23A, 80 V       2         Number of contacts in series at D0 23A, 80 V       3         Number of contacts in series at D0 23A, 80 V       3         Switching capacity (imalic citts): contacts in series at D0 23A, 20 V       5         Switching capacity (imalic citts): contacts in series at D0 23A, 20 V       10A, Atu UUUCSA)         Switching capacity (imalic citts): contacts, general use)       10A, Atu UUUCSA)         Switching capacity (imalic citts): contacts, general use)       10A, Atu, UUUCSA)         Nutage are contact piri riseries       139 A         Assigned motor power at 2020 V 200 Hz, 1phase       114P         Assigned motor power at 2020 V 200 Hz, 1phase       114P         Assigned motor power at 2020 V 200 Hz, 3phase       134 P         Assigned motor power at 2020 V 200 Hz, 3phase       14P         Assigned motor power at 2020 V 200 Hz, 3phase       14P         Assigned motor power at 2020 V 200 Hz, 3phase       14P         Assigned motor power at 202	Switching capacity	
Number of contacts in series at DC-23A, 24 V   Image: Contacts in series at DC-23A, 66 V   Image: Contacts in series at DC-23A, 66 V     Number of contacts in series at DC-23A, 26 V   Image: Contacts in series at DC-23A, 26 V   Image: Contacts in series at DC-23A, 26 V     Number of contacts in series at DC-23A, 26 V   Image: Contacts in series at DC-23A, 26 V   Image: Contacts in series at DC-23A, 26 V     Switching capacity (auxiliary contacts, general use)   Image: Contact Dim Series at DC-23A, 26 V   Image: Contact Dim Series at DC-23A, 26 V     Switching capacity (auxiliary contacts, general use)   Image: Contact Dim Series at DC-23A, 26 V   Image: Contact Dim Series at DC-23A, 26 V     Number of contacts in series at DC-23A, 26 V   Image: Contact Dim Series at DC-23A, 26 V   Image: Contact Dim Series at DC-23A, 26 V     Number of contact Dim Isol 20 V (cos phi to EC/26 MD50-3)   Image: Contact Dim Series at DC-23A, 26 V   Image: Contact Dim Series at DC-23A, 26 V     Number of contact Dim Series at DC-23A, 26 V   Image: Contact Dim Series at DC-23A, 26 V   Image: Contact Dim Series at DC-23A, 26 V     Assigned motor power at 1202 V (D Hz, 1-phase   Image: Contact Dim Series at DC-23A, 26 V   Image: Contact Dim Series at DC-23A, 26 V     Assigned motor power at 2302 V (D Hz, 2-phase   Image: Contact Dim Series at DC-23A, 26 V   Image: Contact Dim Series at DC-23A, 26 V     Assigned motor power at 2302 V (D U, D Hz, 2-phase   Image: Contact Dim Series at DC-23 P   Image: Contact Dim Series at DC-23 P <t< td=""><td>Load rating</td><td>2 x I# (with intermittent operation class 12, 25 % duty factor)</td></t<>	Load rating	2 x I# (with intermittent operation class 12, 25 % duty factor)
Number of contacts in series at DC-23A, 49 V   3     Number of contacts in series at DC-23A, 20 V   3     Number of contacts in series at DC-23A, 240 V   5     Switching capacity (main contacts, general use)   16 A, Rated uninterrupted current max. (UL/CSA)     Switching capacity (auxiliary contacts, general use)   10A, IU, (UL/CSA)     Switching capacity (auxiliary contacts, general use)   10A, IU, (UL/CSA)     Rated making capacity (auxiliary contacts, plot duty)   10A, IU, (UL/CSA)     Rated making capacity (auxiliary contacts, plot duty)   10A     Assigned motor power at 150/120 V, 60 Hz, 1-phase   05 HP     Assigned motor power at 200208 V, 60 Hz, 1-phase   11HP     Assigned motor power at 200208 V, 60 Hz, 1-phase   11HP     Assigned motor power at 200208 V, 60 Hz, 1-phase   11HP     Assigned motor power at 200208 V, 60 Hz, 1-phase   11HP     Assigned motor power at 200208 V, 60 Hz, 1-phase   11HP     Assigned motor power at 200208 V, 60 Hz, 1-phase   11HP     Assigned motor power at 200208 V, 60 Hz, 3-phase   11HP     Assigned motor power at 200208 V, 60 Hz, 3-phase   11HP     Assigned motor power at 20020 V, 60 Hz, 3-phase   11HP     Assigned motor power at 20020 V, 60 Hz, 3-phase   15 HP     Control circuit reliability   0     Number of auxilary contacts (hormally coen contacts)   12	Number of contacts in series at DC-21A, 240 V	1
Number of contacts in series at DC-23A, 20 V       3         Number of contacts in series at DC-23A, 20 V       5         Switching capacity (main contacts, general use)       16A, UU, UU/CSA)         Switching capacity (susiliary contacts, general use)       16A, UU, UU/CSA)         Switching capacity (susiliary contacts, general use)       16A, UU, UU/CSA)         Switching capacity (susiliary contacts, general use)       16A, UU, UU/CSA)         Switching capacity (susiliary contacts, general use)       16A, UU, UU/CSA)         Wolter at sign (capacity up to 680 V (cos phi to IEC/EN 6047-3)       130 A         Valtage per contact pair in series       05 VP         Assigned motor power at 151/120 V, 60 Hz, 1-phase       05 VP         Assigned motor power at 200240 V, 60 Hz, 2-phase       15 NP         Assigned motor power at 200240 V, 60 Hz, 2-phase       15 NP         Assigned motor power at 200240 V, 60 Hz, 2-phase       15 NP         Assigned motor power at 200240 V, 60 Hz, 2-phase       15 NP         Assigned motor power at 200240 V, 60 Hz, 2-phase       15 NP         Assigned motor power at 200240 V, 60 Hz, 2-phase       16 NP         Assigned motor power at 200240 V, 60 Hz, 2-phase       16 NP         Assigned motor power at 200240 V, 60 Hz, 2-phase       16 NP         Assigned motor power at	Number of contacts in series at DC-23A, 24 V	1
Number of contacts in series at DC-23A, 120 V   Image: Solution of contacts in series at DC-23A, 240 V   Image: Solution of contacts in series at DC-23A, 240 V     Switching capacity (isualiary contacts, general use)   Image: Solution of Contacts in series at DC-23A, 240 V   Image: Solution of Contacts in Solution of Contacts, general use)     Switching capacity (isualiary contacts, general use)   Image: Solution of Contacts in Solution of Contacts, general use)   Image: Solution of Contacts in Solution of Contacts, general use)     Switching capacity (isualiary contacts, general use)   Image: Solution of Contacts, General use)   Image: Solution of Contacts, General use)     Watage per contact pair in series   Image: Solution of Contacts, General Use)   Image: Solution of Contacts, General Use, Solution of Contact, Solution of Solution of Contact, Solution of Solution, Solution of Contact, Solution, Solut	Number of contacts in series at DC-23A, 48 V	2
Number of contacts in series at DC-23A, 240 V   Image: Second Sec	Number of contacts in series at DC-23A, 60 V	3
Switching capacity (main contacts, general use)       Ide to the term of the ter	Number of contacts in series at DC-23A, 120 V	3
Switching capacity (auxiliary contacts, general use)     Image: Switching capacity (auxiliary contacts, pilot duty)     Image: Switching capacity (auxiliary contacts, pilot duty)     Image: Switching capacity (auxiliary contacts, pilot duty)       Rated making capacity (auxiliary contacts, pilot duty)     Image: Switching capacity (auxiliary contacts, pilot duty)     Image: Switching capacity (auxiliary contacts, pilot duty)       Motor rating     Image: Switching capacity (auxiliary contacts, pilot duty)     Image: Switching capacity (auxiliary contacts, pilot duty)       Assigned motor power at 115/120 V, 60 Hz, 1-phase     Image: Switching capacity (auxiliary contacts, phase)     Image: Switching capacity (auxiliary contacts, phase)       Assigned motor power at 230/280 V, 60 Hz, 1-phase     Image: Switching capacity (auxiliary contacts, phase)     Image: Switching capacity (auxiliary contacts)       Assigned motor power at 230/280 V, 60 Hz, 3-phase     Image: Switching capacity (auxiliary contacts)     Image: Switching capacity (auxiliary contacts)       Assigned motor power at 230/280 V, 60 Hz, 3-phase     Image: Switching capacity (auxiliary contacts)     Image: Switching capacity (auxiliary contacts)       Number of auxiliary contacts (change-over contacts)     Image: Switching capacity (auxiliary contacts)     Image: Switching capacity (auxiliary contacts)       Number of auxiliary contacts (change-over contacts)     Image: Switching capacity (auxiliary contacts)     Image: Switching capacity (auxiliary contacts)       N	Number of contacts in series at DC-23A, 240 V	5
Switching capacity (auxiliary contacts, pilot duty)     P000 (UU/CSA)       Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)     130 A       Voltage per contact pair in series     0       Assigned motor power at 115/120 V, 60 Hz, 1-phase     0.5 HP       Assigned motor power at 200/208 V, 60 Hz, 1-phase     0.5 HP       Assigned motor power at 200/208 V, 60 Hz, 1-phase     1.5 HP       Assigned motor power at 200/208 V, 60 Hz, 3-phase     3 HP       Assigned motor power at 200/208 V, 60 Hz, 3-phase     1.5 HP       Assigned motor power at 200/208 V, 60 Hz, 3-phase     3 HP       Assigned motor power at 200/208 V, 60 Hz, 3-phase     1.5 HP       Assigned motor power at 200/208 V, 60 Hz, 3-phase     7.5 HP       Control for power at 200/208 V, 60 Hz, 3-phase     1.5 HP       Assigned motor power at 200/208 V, 60 Hz, 3-phase     1.5 HP       Assigned motor power at 200/208 V, 60 Hz, 3-phase     1.5 HP       Assigned motor power at 200/208 V, 60 Hz, 3-phase     1.5 HP       Assigned motor power at 200/208 V, 60 Hz, 3-phase     1.5 HP       Assigned motor power at 200/208 V, 60 Hz, 3-phase     1.5 HP       Assigned motor power at 200/208 V, 60 Hz, 3-phase     1.5 HP       Control for the disbibility     1.5 HP       Number of auxiliary contacts (	Switching capacity (main contacts, general use)	16 A, Rated uninterrupted current max. (UL/CSA)
Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)   A600 (UU/CSA)     Rotor rating   30 A     Assigned motor power at 115/120 V, 60 Hz, 1-phase   0.5 HP     Assigned motor power at 200/280 V, 60 Hz, 3-phase   0.5 HP     Assigned motor power at 200/280 V, 60 Hz, 3-phase   1.5 HP     Assigned motor power at 200/280 V, 60 Hz, 3-phase   3 HP     Assigned motor power at 200/280 V, 60 Hz, 3-phase   3 HP     Assigned motor power at 200/280 V, 60 Hz, 3-phase   3 HP     Assigned motor power at 200/280 V, 60 Hz, 3-phase   3 HP     Assigned motor power at 200/280 V, 60 Hz, 3-phase   3 HP     Assigned motor power at 200/280 V, 60 Hz, 3-phase   5 HP     Assigned motor power at 200/280 V, 60 Hz, 3-phase   5 HP     Assigned motor power at 200/280 V, 60 Hz, 3-phase   5 HP     Assigned motor power at 200/280 V, 60 Hz, 3-phase   7 5 HP     Assigned motor power at 200/280 V, 60 Hz, 3-phase   1 failure per 100.000 swrtching operations statistically determined, at 24 V DC, mA/     Number of auxiliary contacts (honmaly oper contacts)   0     Number of auxiliary contacts (honmaly oper contacts)   0     Number of auxiliary contacts (honmaly oper contacts)   1 failure per 100.000 swrtching operations statistically determined, at 24 V DC, mA/     Number of auxiliary contacts (honmaly oper contacts)   0   0     Number of auxiliary contacts (honma	Switching capacity (auxiliary contacts, general use)	10A, IU, (UL/CSA)
Voltage per contact pair in series       60 V         Motor rating       60 V         Assigned motor power at 115/120 V, 60 Hz, 1-phase       0.5 HP         Assigned motor power at 200/208 V, 60 Hz, 1-phase       1 HP         Assigned motor power at 200/208 V, 60 Hz, 1-phase       3 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 200/208 V, 60 Hz, 3-phase       5 HP         Assigned motor power at 200/208 V, 60 Hz, 3-phase       5 HP         Assigned motor power at 200/240 V, 60 Hz, 3-phase       5 HP         Assigned motor power at 200/240 V, 60 Hz, 3-phase       7 HP         Assigned motor power at 200/240 V, 60 Hz, 3-phase       7 HP         Assigned motor power at 200/240 V, 60 Hz, 3-phase       7 HP         Assigned motor power at 200/240 V, 60 Hz, 3-phase       7 HP         Assigned motor power at 200/240 V, 60 Hz, 3-phase       7 HP         Assigned motor power at 200/240 V, 60 Hz, 3-phase       7 HP         Assigned motor power at 250/240 V, 60 Hz, 3-phase       7 HP         Assigned motor power at 250/240 V, 60 Hz, 3-phase       7 HP         Number of auxiliary contacts (change-over contacts)       0       0         Num	Switching capacity (auxiliary contacts, pilot duty)	
Motor rating       0.5 HP         Assigned motor power at 15/120 V, 60 Hz, 1-phase       0.5 HP         Assigned motor power at 200208 V, 60 Hz, 1-phase       1 HP         Assigned motor power at 200208 V, 60 Hz, 1-phase       3 HP         Assigned motor power at 200240 V, 60 Hz, 1-phase       3 HP         Assigned motor power at 200240 V, 60 Hz, 1-phase       3 HP         Assigned motor power at 200240 V, 60 Hz, 1-phase       3 HP         Assigned motor power at 200240 V, 60 Hz, 3-phase       5 HP         Assigned motor power at 505/600 V, 60 Hz, 3-phase       7.5 HP         Control circuit reliability       1 failure per 100,000 switching operations statistically determined, at 24 V DC, mAJ         Number of auxiliary contacts (change-over contacts)       0         Number of auxiliary contacts (normally closed contacts)       0         Number of auxiliary contacts (normally closed contacts)       0         Number of contacts       12         Actuator function       Short thumb-grip         Actuator type       0         Design verification       0         Equipment heat dissipation, current-dependent Pvid       0 W         Heat dissipation per pole, current-dependent Pvid       0 W	Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	130 A
Assigned motor power at 115/120 V, 60 Hz, 1-phase0.5 HPAssigned motor power at 200/208 V, 60 Hz, 3-phase1 HPAssigned motor power at 200/208 V, 60 Hz, 3-phase3 HPAssigned motor power at 230/240 V, 60 Hz, 3-phase1.5 HPAssigned motor power at 460/480 V, 60 Hz, 3-phase7.5 HPContacts7.5 HPControl circuit reliability1 failure per 100,000 switching operations statistically determined, at 24 V DC, mANumber of auxiliary contacts (normally closed contacts)0Number of auxiliary contacts (normally closed contacts)12Actuator functionMaintained Writhout 0 (off) positionActuator functionMaintained Writhout 0 (off) positionActuator function0Buigment heat dissipation, current-dependent Pvid0Heat dissipation capacity Pdiss0Heat dissipation per pole, current-dependent Pvid0Heat dissipation per pole, current-dependent Pvid0.5 W	Voltage per contact pair in series	60 V
Assigned motor power at 200/208 V, 60 Hz, 1-phase1 HPAssigned motor power at 200/208 V, 60 Hz, 3-phase3 HPAssigned motor power at 230/240 V, 60 Hz, 3-phase15 HPAssigned motor power at 230/240 V, 60 Hz, 3-phase3 HPAssigned motor power at 460/480 V, 60 Hz, 3-phase7.5 HPAssigned motor power at 575/600 V, 60 Hz, 3-phase7.5 HPContracts1 failure per 100,000 switching operations statistically determined, at 24 V DC, mA)Number of auxiliary contacts (change-over contacts)0Number of auxiliary contacts (normally closed contacts)0Number of auxiliary contacts (normally closed contacts)12Actuator functionMaintained Without 0 (Off) positionActuator function0Actuator function0Actuator function0Actuator function0Heat dissipation, current-dependent Pvid0Heat dissipation per pole, current-dependent Pvid0.6 W	Motor rating	
Assigned motor power at 200/208 V, 60 Hz, 3-phase3 HPAssigned motor power at 230/240 V, 60 Hz, 1-phase15 HPAssigned motor power at 230/240 V, 60 Hz, 3-phase3 HPAssigned motor power at 450/480 V, 60 Hz, 3-phase5 HPAssigned motor power at 450/480 V, 60 Hz, 3-phase75 HPContacts75 HPContacts1 failure per 100,000 switching operations statistically determined, at 24 VDC, mA)Number of auxiliary contacts (change-over contacts)0Number of auxiliary contacts (normally closed contacts)0Number of auxiliary contacts (normally open contacts)0Number of contacts0Actuator function12Actuator functionWaintained Without 0 (Off) positionActuator function0Actuator function0Heat dissipation, current-dependent Pvid0Heat dissipation capacity Pdiss0Heat dissipation per pole, current-dependent Pvid0WHeat dissipation per pole, current-dependent Pvid0W	Assigned motor power at 115/120 V, 60 Hz, 1-phase	0.5 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase1.5 HPAssigned motor power at 230/240 V, 60 Hz, 3-phase3 HPAssigned motor power at 460/480 V, 60 Hz, 3-phase7.5 HPAssigned motor power at 575/600 V, 60 Hz, 3-phase7.5 HPContacts1 failure per 100,000 switching operations statistically determined, at 24 V DC, mA)Number of auxiliary contacts (change-over contacts)0Number of auxiliary contacts (normally closed contacts)0Number of auxiliary contacts (normally closed contacts)0Number of contacts12Actuator functionMaintained Without 0 (0ff) positionActuator functionMaintained Without 0 (0ff) positionActuator typeMaintained Without 0 (0ff) positionDesign verification0Equipment heat dissipation, current-dependent Pvid0Heat dissipation capacity Pdiss0Heat dissipation per pole, current-dependent Pvid0Meat dissipation per pole, current-dependent Pvid0Meat dissipation per pole, current-dependent Pvid0Meat dissipation per pole, current-dependent Pvid0.6 W	Assigned motor power at 200/208 V, 60 Hz, 1-phase	1 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase     3 HP       Assigned motor power at 480/480 V, 60 Hz, 3-phase     7.5 HP       Assigned motor power at 575/600 V, 60 Hz, 3-phase     7.5 HP       Contacts     7.5 HP       Contacts     7.5 HP       Control circuit reliability     1 failure per 100,000 switching operations statistically determined, at 24 V DC, mA)       Number of auxiliary contacts (change-over contacts)     0       Number of auxiliary contacts (normally closed contacts)     0       Number of auxiliary contacts (normally closed contacts)     0       Number of contacts     0       Actuator     2       Actuator type     Short Humb-grip       Design verification     Without 0 (Off) position       Equipment heat dissipation, current-dependent Pvid     OW       Heat dissipation per pole, current-dependent Pvid     OW	Assigned motor power at 200/208 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     7.5 HP       Contacts     7.5 HP       Contacts     7.5 HP       Control circuit reliability     1 failure per 100,000 switching operations statistically determined, at 24 V DC, mA)       Number of auxiliary contacts (change-over contacts)     0       Number of auxiliary contacts (normally closed contacts)     12       Actuator     12       Actuator     Maintained       Actuator function     Maintained       Actuator type     Maintained       Design verification     0W       Equipment heat dissipation, current-dependent Pvid     0W       Heat dissipation prole, current-dependent Pvid     0W       Heat dissipation per pole, current-dependent Pvid     0W	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       Contacts     1 failure per 100,000 switching operations statistically determined, at 24 V DC, 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     0       Actuator     12       Actuator function     Maintained       Actuator function     Short thumb-grip       Design verification     0       Equipment heat dissipation, current-dependent Pvid     0       Heat dissipation per pole, current-dependent Pvid     0       Heat dissipation per pole, current-dependent Pvid     0	Assigned motor power at 230/240 V, 60 Hz, 3-phase	3 HP
Contacts     I failure per 100,000 switching operations statistically determined, at 24 V DC, mA)       Number of auxiliary contacts (change-over contacts)     0       Number of auxiliary contacts (normally closed contacts)     0       Number of auxiliary contacts (normally closed contacts)     0       Number of contacts     0       Number of contacts     0       Actuator     12       Actuator function     Maintained       Actuator type     Maintained       Design verification     Short thumb-grip       Equipment heat dissipation, current-dependent Pvid     0 W       Heat dissipation per pole, current-dependent Pvid     0.6 W	Assigned motor power at 460/480 V, 60 Hz, 3-phase	7.5 HP
Control circuit reliabilityIf alive per 100,000 switching operations statistically determined, at 24 V DC, mA)Number of auxiliary contacts (change-over contacts)0Number of auxiliary contacts (normally closed contacts)0Number of auxiliary contacts (normally open contacts)0Number of contacts0Number of contacts0Actuator12Actuator functionMaintained Without 0 (off) positionActuator typeShort thumb-gripDesign verification0Equipment heat dissipation, current-dependent Pvid0Heat dissipation per pole, current-dependent Pvid0Heat dissipation per pole, current-dependent Pvid0Met dissipation per pole, current-dependent Pvid06	Assigned motor power at 575/600 V, 60 Hz, 3-phase	7.5 HP
Number of auxiliary contacts (change-over contacts)mA)Number of auxiliary contacts (normally closed contacts)0Number of auxiliary contacts (normally open contacts)0Number of contacts0Number of contacts12ActuatorMaintained Without 0 (Off) positionActuator functionMaintained Without 0 (Off) positionDesign verification0Equipment heat dissipation capacity Pdiss0Heat dissipation per pole, current-dependent Pvid0Meat dissipation per pole, curren	Contacts	
Number of auxiliary contacts (normally closed contacts)     I     0       Number of auxiliary contacts (normally open contacts)     I     0       Number of contacts     I     I       Actuator     I     I       Actuator function     I     IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	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)     0       Number of contacts     12       Actuator     Maintained       Actuator function     Maintained       Actuator type     Short thumb-grip       Design verification     0       Equipment heat dissipation, current-dependent Pvid     O       Heat dissipation per pole, current-dependent Pvid     OW       Bestign to represent the dissipation per pole, current-dependent Pvid     OW	Number of auxiliary contacts (change-over contacts)	0
Number of contacts12ActuatorMaintained Without 0 (Off) positionActuator functionMaintained Without 0 (Off) positionActuator typeShort thumb-gripDesign verificationOWEquipment heat dissipation, current-dependent PvidOWHeat dissipation per pole, current-dependent PvidOWHeat dissipation per pole, current-dependent PvidOW	Number of auxiliary contacts (normally closed contacts)	0
ActuatorActuator functionActuator functionActuator typeActuator typeDesign verificationEquipment heat dissipation, current-dependent PvidHeat dissipation per pole, current-dependent PvidMaintained Vithout 0 (Off) positionMaintained Vithout 0 (Off) position <td>Number of auxiliary contacts (normally open contacts)</td> <td>0</td>	Number of auxiliary contacts (normally open contacts)	0
Actuator functionMaintained Without 0 (Off) positionActuator typeShort thumb-gripDesign verificationEquipment heat dissipation, current-dependent Pvid0 WHeat dissipation per pole, current-dependent Pvid0 WHeat dissipation per pole, current-dependent Pvid0.6 W	Number of contacts	12
Actuator type   Without 0 (Off) position     Actuator type   Short thumb-grip     Design verification   OW     Equipment heat dissipation, current-dependent Pvid   OW     Heat dissipation capacity Pdiss   OW     Heat dissipation per pole, current-dependent Pvid   OW	Actuator	
Design verification   OW     Equipment heat dissipation, current-dependent Pvid   OW     Heat dissipation per pole, current-dependent Pvid   OW     Heat dissipation per pole, current-dependent Pvid   OW	Actuator function	
Equipment heat dissipation, current-dependent Pvid   0 W     Heat dissipation capacity Pdiss   0 W     Heat dissipation per pole, current-dependent Pvid   0 W	Actuator type	Short thumb-grip
Heat dissipation capacity Pdiss   0     Heat dissipation per pole, current-dependent Pvid   0.6	Design verification	
Heat dissipation per pole, current-dependent Pvid	Equipment heat dissipation, current-dependent Pvid	0 W
	Heat dissipation capacity Pdiss	0 W
Rated operational current for specified heat dissipation (In) 20 A	Heat dissipation per pole, current-dependent Pvid	0.6 W
	Rated operational current for specified heat dissipation (In)	20 A
Static heat dissipation, non-current-dependent Pvs 0 W	Static heat dissipation, non-current-dependent Pvs	0 W
10.2.2 Corrosion resistance Meets the product standard's requirements.	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.	10.2.3.1 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.	10.2.3.2 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.	10.2.3.3 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.	10.2.4 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.	10.2.5 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.	10.3 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.	10.4 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		Reverser
Number of poles		6
With zero (off) position		No
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		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