Multi-speed switches, T0, 20 A, flush mounting, 4 contact unit(s), Contacts: 8, 60  $^{\circ}$ , maintained, With 0 (Off) position, 0-1-2, Design number 15204



Part no. T0-4-15204/E 013674

Product name Part and. Part and. Part and. Part and. Product Leaguk Queph Product Leaguk Queph Product Multiple Product Multiple Product welgin Carrier Single Agency Sing		
END (1980) (1980	Product name	Eaton Moeller® series T0 Multi-speed switch
Product Length Oegoth Product religit Product	Part no.	T0-4-15204/E
Product visight Product visigh	EAN	4015080136743
Product weight Certifications Certif	Product Length/Depth	105 millimetre
Product weight Certifications Certif		48 millimetre
Exertifications         Exert Means of Section 24 - 1-14 or 10 o		48 millimetre
Event floatenen         EVEN MEROUP - CANCEZ NA. 08007 - 1-14 CULT Flot No. 2583.32 CULT Flot No. 2583.02 CULT Flot Flot Flot Flot Flot Flot Flot Flot	Product weight	0.156 kilogram
Product Sub Type  Product Sub Type  Catalog Notes	-	IEC/EN 60947-3 CSA-C22.2 No. 60947-4-1-14 UL UL File No.: E36332 CE CSA-C22.2 No. 94 UL 60947-4-1 CSA File No.: 012528 UL Category Control No.: NLRV IEC/EN 60947 CSA Class No.: 3211-05 IEC/EN 60204 CSA
Product Sub Type Catalog Notes	Product Tradename	ТО
Catalog Notes       Raded Short-time Withstand Current (lcw) for a time of 1 second         Enclosure material       Plastic         Fitted with:       0 (off) position         Inscription       0-1-2         Number of poles       3         Switch function type       0 teapped winding, 2 speeds         Degree of protection       PP65         NEMA 12         Lifespan, mechanical       4 too, NEMA 12         Model       0 palhander switch         Mounting method       0 palhander switch         Mounting position       4 required         Number of contact units       4 required         Operating frequency       1000 operations/h         Overvoltage category       1100 operations/h         Pollution degree       3         Rated impulse withstand voltage (Uimp)       8000 V AC         Safe isolation       40 V AC, Between the contacts, According to EN 61140         Safe isolation       40 V AC, Between the contacts, According to EC/EN 60069-2.7, Half-sinusoidal shock 20 ms         Safe isolation       15 g, Meenanical, According to EC/EN 60069-2.7, Half-sinusoidal shock 20 ms         Shick resistance       15 g, Menanical, According to EC/EN 60069-2.7, Half-sinusoidal shock 20 ms	Product Type	Multi-speed switch
Enclosure material  Enclosure material  Enclosure material  Fitted with:  Inscription  Inscripti	Product Sub Type	None
Fitted with:       Blocktiposition       Blockthumb grip and front plate         Inscription       0-1-2         Number of poles       3         Switch function type       teapped winding, 2 speeds         Degree of protection       PBS         Begree of protection (front side)       IPBS         Lifespan, mechanical       1PBS         Model       Model         Mounting position       Dahlander switch         Mounting position       Serequired         Number of contact units       4         Operating frequency       4         Overvoltage category       III         Pollution degree       3         Rated impulse withstand voltage (Ulimp)       4         Safe isolation       400 VAC, Between the contacts, According to EN 61140         Safety parameter (EN ISO 13849-1, table C.1       5 f. 9, Mechanical, According to EC/EN 60088-2-27, Half-sinusoidal shock 20 ms Fort, mounting, with ble as motor disconnect, (UL/CSA)	Catalog Notes	Rated Short-time Withstand Current (Icw) for a time of 1 second
Fitted with:       Blocktiposition       Blockthumb grip and front plate         Inscription       0-1-2         Number of poles       3         Switch function type       teapped winding, 2 speeds         Degree of protection       PBS         Begree of protection (front side)       IPBS         Lifespan, mechanical       1PBS         Model       Model         Mounting position       Dahlander switch         Mounting position       Serequired         Number of contact units       4         Operating frequency       4         Overvoltage category       III         Pollution degree       3         Rated impulse withstand voltage (Ulimp)       4         Safe isolation       400 VAC, Between the contacts, According to EN 61140         Safety parameter (EN ISO 13849-1, table C.1       5 f. 9, Mechanical, According to EC/EN 60088-2-27, Half-sinusoidal shock 20 ms Fort, mounting, with ble as motor disconnect, (UL/CSA)		
Inscription Inscri	Enclosure material	Plastic
Number of poles Switch function type  Pegree of protection  Degree of protection  Degree of protection (front side)  Degr	Fitted with:	
Switch function type  Pegree of protection  Pegree of protection  Pegree of protection  Pegree of protection  Pegree of protection (front side)  Pegs Pegs Pegs Pegs Pegs Pegs Pegs Pegs	Inscription	0-1-2
Degree of protection  Degree of protection  Degree of protection (front side)  Degree	Number of poles	3
Pegree of protection (front side)NEMA 12Lifespan, mechanical400,000 OperationsModelDahlander switchMounting methodFlush mountingMounting positionAs requiredNumber of contact units4Operating frequency1200 Operations/hOvervoltage categoryIIIPollution degree3Rated impulse withstand voltage (Uimp)6000 V ACSafety parameter (EN ISO 13849-1)150 Q Nechanical, According to EN 61140Shock resistance15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 msSuitable forBranch circuits, suitable as motor disconnect, (UL/CSA) Front mounting	Switch function type	One tapped winding, 2 speeds
Pegree of protection (front side)NEMA 12Lifespan, mechanical400,000 OperationsModelDahlander switchMounting methodFlush mountingMounting positionAs requiredNumber of contact units4Operating frequency1200 Operations/hOvervoltage categoryIIIPollution degree3Rated impulse withstand voltage (Uimp)6000 V ACSafety parameter (EN ISO 13849-1)150 Q Nechanical, According to EN 61140Shock resistance15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 msSuitable forBranch circuits, suitable as motor disconnect, (UL/CSA) Front mounting		
Lifespan, mechanicalNEMA 12Model400,000 OperationsMounting methodDahlander switchMounting positionFlush mountingNumber of contact unitsAs requiredOperating frequency1200 Operations/hOvervoltage categoryIIIPollution degree3Rated impulse withstand voltage (Uimp)6000 V ACSafe isolation40 V AC, Between the contacts, According to EN 61140Safety parameter (EN ISO 13849-1)B10d values as per EN ISO 13849-1, table C.1Shock resistance15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 msSuitable forBranch circuits, suitable as motor disconnect, (UL/CSA) Front mounting	Degree of protection	NEMA 1
ModelDahlander switchMounting methodFlush mountingMounting positionAs requiredNumber of contact units4Operating frequency1200 Operations/hOvervoltage categoryIIIPollution degree3Rated impulse withstand voltage (Uimp)6000 V ACSafet y parameter (EN ISO 13849-1)440 V AC, Between the contacts, According to EN 61140Shock resistance15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 msSuitable forBranch circuits, suitable as motor disconnect, (UL/CSA) Front mounting	Degree of protection (front side)	
Mounting method Mounting position As required Number of contact units Operating frequency Overvoltage category Rated impulse withstand voltage (Uimp) Safet y parameter (EN ISO 13849-1) Suitable for  Mounting method Riush mounting Flush mounting  4  4  4  4  4  4  4  4  4  4  4  4  4	Lifespan, mechanical	400,000 Operations
Mounting position  As required  Number of contact units  Operating frequency  Overvoltage category  III  Pollution degree  3  Rated impulse withstand voltage (Uimp)  Safe isolation  Safety parameter (EN ISO 13849-1)  Shock resistance  Suitable for  Mounting position  As required  4  4  As required  As required  As required  4  As required  4  As required  As required  4  As required  4  As required  As required  4  As required  As required  4  As required  Final Repositions, he contacts, he contacts, he coording to EN 61140  Safety parameter (EN ISO 13849-1)  Blod values as per EN ISO 13849-1, table C.1  Shock resistance  Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting	Model	Dahlander switch
Number of contact units  Querating frequency  1200 Operations/h  1111  Pollution degree  3  Rated impulse withstand voltage (Uimp)  Safe isolation  Safety parameter (EN ISO 13849-1)  Shock resistance  Shock resistance  Suitable for  Summer of contact units  4  4  4  4  4  4  4  4  4  4  4  4  4	Mounting method	Flush mounting
Operating frequency Overvoltage category III  Pollution degree 3 Rated impulse withstand voltage (Uimp) Safe isolation Safety parameter (EN ISO 13849-1) Shock resistance Suitable for  1200 Operations/h III  6000 V AC  6000 V AC  440 V AC, Between the contacts, According to EN 61140  B10d values as per EN ISO 13849-1, table C.1  15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms  Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting	Mounting position	As required
Overvoltage category  Pollution degree  Rated impulse withstand voltage (Uimp)  Safe isolation  Safety parameter (EN ISO 13849-1)  Shock resistance  Suitable for  III  6000 V AC  440 V AC, Between the contacts, According to EN 61140  B10d values as per EN ISO 13849-1, table C.1  15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms  Branch circuits, suitable as motor disconnect, (UL/CSA)  Front mounting	Number of contact units	4
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	Operating frequency	1200 Operations/h
Rated impulse withstand voltage (Uimp)  Safe isolation  440 V AC, Between the contacts, According to EN 61140  Safety parameter (EN ISO 13849-1)  Shock resistance  Suitable for  Branch circuits, Suitable as motor disconnect, (UL/CSA) Front mounting	Overvoltage category	III
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  Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting	Pollution degree	3
Safety parameter (EN ISO 13849-1)  Shock resistance  Suitable for  B10d values as per EN ISO 13849-1, table C.1  15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms  Branch circuits, suitable as motor disconnect, (UL/CSA)  Front mounting	Rated impulse withstand voltage (Uimp)	6000 V AC
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	Safe isolation	440 V AC, Between the contacts, According to EN 61140
Suitable for Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting	Safety parameter (EN ISO 13849-1)	B10d values as per EN ISO 13849-1, table C.1
Front mounting	Shock resistance	15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 m
Switching angle 60 °	Suitable for	Front mounting
	Switching angle	60 °

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, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ferminal capacity (flexible with ferrule)	2 x (0.75 - 2.5) mm <sup>2</sup> , ferrules to DIN 46228 1 x (0.75 - 2.5) mm <sup>2</sup> , ferrules to DIN 46228
Ferminal capacity (solid/flexible with ferrule AWG)	18 - 14
Ferminal capacity (solid/stranded)	2 x (1 - 2.5) mm <sup>2</sup> 1 x (1 - 2.5) mm <sup>2</sup>
Screw size	M3.5, Terminal screw
Fightening torque	8.8 lb-in, Screw terminals 1 Nm, Screw terminals
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 (Ie)	20 A at AC-3, 400 V star-delta 15.6 A at AC-3, 500 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 (le) 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 (le) at AC-21, 440 V	20 A
Rated operational current (le) at AC-23A, 230 V	13.3 A
Rated operational current (le) at AC-23A, 400 V, 415 V	13.3 A
Rated operational current (le) at AC-23A, 500 V	13.3 A
Rated operational current (le) 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 Rated operational current (Ie) at DC-23A, 24 V	1 A 10 A
Rated operational current (le) at DC-23A, 24 V	10 A
Rated operational current (le) at DC-23A, 40 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-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 (Iu)	20 A
Jninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.

Rated short-time withstand current (Icw)	320 A, Contacts, 1 second
Short-circuit current rating (basic rating)	5 kA, SCCR (UL/CSA) 50A, max. Fuse, SCCR (UL/CSA)
Short-circuit current rating (high fault)	10 kA, SCCR (UL/CSA) 20 A, Class J, max. Fuse, SCCR (UL/CSA)
Short-circuit protection rating	20 A gG/gL, Fuse, Contacts
Load rating	1.3 x l# (with intermittent operation class 12, 60 % duty factor) 1.6 x l# (with intermittent operation class 12, 40 % duty factor) 2 x l# (with intermittent operation class 12, 25 % 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)	16 A, Rated uninterrupted current max. (UL/CSA)
Switching capacity (auxiliary contacts, general use)	10A, IU, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	A600 (UL/CSA) P300 (UL/CSA)
Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	130 A
Voltage per contact pair in series	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, 3-phase	3 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase	1.5 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	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 open contacts)	0
Number of contacts	8
Actuator function	Maintained With 0 (Off) position
Actuator type	Short thumb-grip
Facility and board disciplation account described Daily	aw.
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
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  10.2.2 Corrosion resistance	0 W
	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  10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
	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.  Magte the product standard's requirements.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances	Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.
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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 b observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must b observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## **Technical data ETIM 8.0**

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 / Changeover switch (ecl@ss10.0.1-27-37-14-05 [AKF062013])

Model		Dahlander 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		No
Suitable for front mounting		Yes
Suitable for distribution board installation		No
Suitable for intermediate mounting		No
Complete device in housing		No
Material housing		Plastic
Type of control element		Short thumb-grip
Type of electrical connection of main circuit		Screw connection