## DATASHEET - DILM65(24V50HZ)

Contactor, 3 pole, 380 V 400 V 30 kW, 24 V 50 Hz, AC operation, Screw terminals



Part no.	DILM65(24V50HZ)
	277881
EL Number	4130454
(Norway)	

## **General specifications**

General specifications	
Product name	Eaton Moeller® series DILM contactor
Part no.	DILM65(24V50HZ)
EAN	4015082778811
Product Length/Depth	132.1 millimetre
Product height	115 millimetre
Product width	55 millimetre
Product weight	0.872 kilogram
Certifications	VDE 0660 IEC/EN 60947-4-1 CSA-C22.2 No. 60947-4-1-14 UL File No.: E29096 CSA IEC/EN 60947 CE UL CSA File No.: 012528 UL 60947-4-1 CSA Class No.: 2411-03, 3211-04 UL Category Control No.: NLDX
Product Tradename	DILM
Product Type	Contactor
Product Sub Type	None
Catalog Notes	Contacts according to EN 50012
General information	
Application	Contactors for Motors
Degree of protection	IP00
Frame size	F\$3
Lifespan, mechanical	10,000,000 Operations (AC operated)
Operating frequency	5000 mechanical Operations/h (AC operated)
Overvoltage category	III
Pollution degree	3
Product category	Contactors
Protection	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
Rated impulse withstand voltage (Uimp)	8000 V AC
Resistance per pole	1.9 mΩ
Suitable for	Also motors with efficiency class IE3
Utilization category	AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-3: Normal AC induction motors: starting, switch off during running
Voltage type	AC
Ambient conditions, mechanical	
Shock resistance	7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms
Climatic environmental conditions	
Altitude	Max. 2000 m

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Entrase interaction         According to 18,000-1           Interference intensity         According to 18,000-1           Terminal capacity (copper band)         2 (8 4 x 6.01 pm) Number of argenceum excitor while scalars           Terminal capacity (copper band)         2 (8 4 x 6.01 pm) Number of argenceum excitor while scalars           Terminal capacity (copper band)         2 (8 4 x 6.01 pm) Number of argenceum excitor while scalars           Terminal capacity (coligo)         2 (8 3 x 6.01 pm) Num Num cables           Terminal capacity (coligo)         2 (8 3 x 6.01 pm) Num Num cables           Terminal capacity (coligo)         2 (8 3 x 6.01 pm) Num Num cables           Terminal capacity (coligo)         2 (8 3 x 6.01 pm) Num Num cables           Stripping (and) (wain cable)         2 (8 3 x 6.01 pm) Num Num cables           Stripping (and) (wain cable)         1 (1/1 5.00 pm) Num cables           Stripping (and) (wain cable)         1 (1/1 5.00 pm) Num cables           Stripping (and) (wain cable)         1 (1/1 5.00 pm) Num cables           Stripping (and) (wain cable)         1 (1/1 5.00 pm) Num cables           Stripping (and) (wain cable)         1 (1/1 5.00 pm) Num cables           Stripping (and) (wain cable)         1 (1/1 5.00 pm) Num cables           Stripping (and) (wain cable)         1 (1/1 5.00 pm) Num cables           Stripping (and) (wain cable)         1 (1/1 5.00 pm) Num		
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Turninal capacities         Image: Source of the sourc	Emitted interference	According to EN 60947-1
Internate capacity (looper band)I is (a so a k k) m (Number of segment a x with x thekees), Main cablesI criminal capacity (locked with trunk)I is (a so a k k) m (Number of segment a x with x thekees), Main cablesI criminal capacity (locked)I is (a so a k k) m (Number of segment a x with x thekees), Main cablesI criminal capacity (locked)I is (a so a k k) m (Number of segment a x with x thekees), Main cablesI criminal capacity (locked)I is (a so a k k) m (Number of segment a x with x thekees), Main cablesI criminal capacity (locked) (locked a W k)I is (a so a k k) m (Number of segment a k with x k) m (Number of segment a k with x k) m (Number of segment a k with x k) m (Number of segment a k with x k) m (Number of segment a k with x k) m (Number of segment a k with x k) m (Number of segment a k with x k) m (Number of segment a k with x k) m (Number of segment a k with x k) m (Number of segment a k with x k) m (Number of segment a k with x k) m (Number of segment a k with x k) m (Number of segment a k with x k) m (Number of segment a k with x k) m (Number of segment a k with x k) m (Number of segment a k with x k) m (Number of segment a k with x k) m (Number of segment a k with x k) m (Number of segment a k with x k) m (Number of segment a k k) m (Number of segment a k k) m (Number of segment a k k) m (Number of segment a k) m (Number of segment a k k) m (Number of segment a k) m (Number of segme	Interference immunity	According to EN 60947-1
Imminist capacity fileable with female!       2 + 0.75 + 25 mm?. Man calcies         Imminist capacity (solid)       2 + 0.05 + 25 mm?. Man calcies         Imminist capacity (solid)       2 + 0.05 + 25 mm?. Man calcies         Imminist capacity (solid)       2 + 0.05 + 25 mm?. Man calcies         Imminist capacity (solid)       2 + 0.05 + 25 mm?. Man calcies         Imminist capacity (solid)       2 + 0.05 + 25 mm?. Man calcies         Imminist capacity (solid)       2 + 0.05 + 25 mm?. Man calcies         Stropping (main calcie)       2 + 0.05 + 25 mm?. Man calcies         Stropping (main calcie)       2 + 0.05 + 25 mm?. Man calcies         Stropping (main calcie)       3 + 0.05 mm?. Man calcies         Stropping (main calcie)       4 + 0.000 + K + 2.000 + K	Terminal capacities	
Laber 2- SolutionLaber 2- SolutionName calculase 2 (0.7- Solution)Name calculase 2 (0.7- Solution) <t< td=""><td>Terminal capacity (copper band)</td><td>2 x (6 x 9 x 0.8) mm (Number of segments x width x thickness), Main cables</td></t<>	Terminal capacity (copper band)	2 x (6 x 9 x 0.8) mm (Number of segments x width x thickness), Main cables
I will a will a will b will	Terminal capacity (flexible with ferrule)	1 x (0.75 - 35) mm², Main cables 1 x (0.75 - 2.5) mm², Control circuit cables
Terminal capacity (stranded)     Single 1-1, double 1-2, Main cables       Strapping length (nain cable)     I km       Strapping length (control circuit cable)     I km       Strew size     I km       Tightening torque     I km       Rated bracking capacity at 20203 V     I km       Rated bracking capacity at 380,400 V     680 A       Rated bracking capacity at 20203 V     680 A       Rated bracking capacity at 68080 V     680 A       Rated bracking capacity at 20203 V     894 A       Rated bracking capacity at 68080 V     680 A       Rated bracking capacity at 68080 V     680 A       Rated bracking capacity at 68080 V     680 A       Rated parational current (lei at AC-3, 280 V, 400 V, 415 V     680 A       Rated operational current (lei at AC-3, 280 V, 400 V, 415 V     680 A       Rated operational current (lei at AC-3, 280 V, 400 V, 415 V     68 A       Rated operational current (lei at AC-3, 800 V, 400 V, 415 V     68 A       Rated operational current (lei at AC-3, 800 V, 400 V, 415 V     68 A       Rated operational current (lei at AC-3, 400 V     74 A       Rated operational	Terminal capacity (solid)	1 x (0.75 - 4) mm², Control circuit cables 2 x (0.75 - 2.5) mm², Control circuit cables
Stripping length (control circuit cable)         I (4 mm)           Stripping length (control circuit cable)         I mm           Screw size         I mm           Screw driver size         I mm           Tightening torque         Z Terminal screw, Ponich circuit cables           Tightening torque         Z Terminal screw, Ponich circuit cables           Reade brashing capacity at 220/220 V         I mm           Reade brashing capacity at 800 V0         I mm           Reade brashing capacity at 800 V0         I mm           Reade brashing capacity at 800 V0, V15 V         I mm           Reade brashing capacity at 800 V0, V15 V         I mm           Reade brashing capacity at 800 V0, V15 V         I mm           Reade brashing capacity at 800 V0, V15 V         I mm           Reade brashing capacity at 800 V0, V15 V         I mm           Reade perational current (l) at AC-3, 280 V, V20 V, V20 V         I mm           Reade operational current (l) at AC-3, 280 V, V20 V, V20 V         I mm           Reade operational current (l) at AC-3, 280 V, V20 V, V20 V         I mm           Reade operational current (l) at AC-4, 800 V, M00 V, H5 V         I mm           Reade operational current (l) at AC-4, 800 V, M00 V         I mm           Reade operational current (l) at AC-4, 800 V, M00 V         I mm	Terminal capacity (solid/stranded AWG)	
Stripping length (control circuit cables)         ID mm           Strew size         M3, Terminal screw, Control circuit cables           Screwdriver size         Carminal screw, Vain cables           Tightening torque         2, Terminal screw, Vain cables           Tightening torque         12, Mm, Strew strewdriver           Bated breaking capacity at 220/230 V         650 A           Rated breaking capacity at 220/230 V         650 A           Rated breaking capacity at 800/00 V         650 A           Rated breaking capacity at 800/00 V, 415 V         650 A           Rated breaking capacity at 800/00 V, 415 V         650 A           Rated preasional current (le) at AC-3, 200 V, 200 V, 200 V         650 A           Rated operasional current (le) at AC-3, 200 V, 200 V, 200 V         65A           Rated operasional current (le) at AC-3, 200 V, 200 V, 200 V         65A           Rated operasional current (le) at AC-3, 200 V, 200 V, 200 V         65A           Rated operasional current (le) at AC-3, 200 V, 200 V, 200 V         65A           Rated operasional current (le) at AC-3, 200 V, 200 V         65A           Rated operasional current (le) at AC-4, 200 V, 200 V         7A           Rated operasional current (le) at AC-4, 200 V, 200 V         7A           Rated operasional current (le) at AC-4, 200 V, 200 V         7A           Rate		
Screw size     M3.5, Terminal screw, Dottrol circuit cables       Screw driver size     2, Terminal screw, Dottrol circuit cables       Tipltning torque     2, Staff a forminal screw, Dottrol circuit cables       Tipltning torque     2, Staff a forminal screw, Dottrol circuit cables       Bettor braking capacity at 220/20 V     500 A       Retor braking capacity at 220/20 V     500 A       Retor braking capacity at 200/20 V     500 A       Retor braking capacity at 200/20 V     500 A       Retor braking capacity at 500 V     500 A       Retor braking capacity	Stripping length (main cable)	14 mm
Note work we size         Min cables           Screwidher size         Jorminal screw, Main cables           Tiphtening torque         2.4 Substrates Sceney Schulder screwy freider           Tiphtening torque         2.4 Min. Screw terminals, Score verminals, Main cables           Electrical rating         5.9 Substrates, Score verminals, Main cables           Rated brashing capacity at S20/200 V         5.9 Substrates, Score verminals, Main cables           Rated brashing capacity at S30/400 V         5.9 Substrates, Score verminals, Main cables           Rated brashing capacity at S30/400 V         5.9 Substrates, Score verminals, Main cables           Rated brashing capacity at S30/400 V         5.9 Substrates, Score verminals, Main cables           Rated operational current (ib) at AC-1, 380 V, 400 V, 415 V         5.0 Substrates, Score Verminals, Main cables           Rated operational current (ib) at AC-3, 380 V, 400 V, 415 V         5.0 Substrates, Score Verminals, Main cables           Rated operational current (ib) at AC-3, 380 V, 400 V, 415 V         5.0 Substrates, Score Verminals, Main cables           Rated operational current (ib) at AC-3, 380 V, 400 V, 415 V         5.0 Substrates, Score Verminals, Main cables           Rated operational current (ib) at AC-3, 380 V, 400 V, 415 V         5.0 Substrates, Score Verminals, Main cables           Rated operational current (ib) at AC-4, 280 V, 480 V         5.0 Substrates, Score Verminalscrewer, Verminal Screwer, Pointalscrewer, Verminal Scr		
Tylining torque     B3 x 55/1 x 6 m, Terminal screw, Standard screw/driver       Tylining torque     12 Nn, Screw terminals, Control circuit, cables       Electrical rating     560 A       Rated breaking capacity at 380,00 V     560 A       Rated breaking capacity at 380,00 V,415 V     560 A       Rated operational current (le) at AC-3,280 V,400 V,415 V     560 A       Rated operational current (le) at AC-3,280 V,400 V,415 V     560 A       Rated operational current (le) at AC-3,280 V,400 V,415 V     560 A       Rated operational current (le) at AC-3,280 V,400 V,415 V     560 A       Rated operational current (le) at AC-3,280 V,400 V,415 V     560 A       Rated operational current (le) at AC-3,280 V,400 V,415 V     560 A       Rated operational current (le) at AC-4,280 V,200 V,240 V     560 A       Rated operational current (le) at AC-4,280 V,200 V,240 V     570 A       Rated operational current (le) at AC-4,280 V,200 V,240 V     570 A       Rated operational current (le) at AC-4,580 V,580 V     570 A       Rated operational current (le) at AC-4,580 V,580 V     570 A       Rated operational current (le) at AC-4,580 V,580 V     570 A       Rated operati	Screw size	
Electrical rating       33 Nm, Screw terminats, Main cables         Bated breaking capacity at 200,200 V       560 A         Rated breaking capacity at 300,400 V       560 A         Rated breaking capacity at 500,V       560 A         Rated breaking capacity at 500,V       560 A         Rated breaking capacity at 500,V       560 A         Rated breaking capacity at 500,V00 V,415 V       560 A         Rated operational current (le) at AC-3, 380 V,400,V,415 V       560 A         Rated operational current (le) at AC-3, 380 V,400,V,415 V       560 A         Rated operational current (le) at AC-3, 480 V,400 V,415 V       560 A         Rated operational current (le) at AC-3, 480 V,400 V,415 V       560 A         Rated operational current (le) at AC-3, 480 V,400 V,415 V       560 A         Rated operational current (le) at AC-3, 480 V,400 V,415 V       560 A         Rated operational current (le) at AC-3, 480 V,400 V,415 V       560 A         Rated operational current (le) at AC-4, 480 V       70 A         Rated operational current (le) at AC-4, 480 V,400 V,415 V       70 A         Rated operational current (le) at AC-4, 480 V,400 V,415 V       70 A         Rated operational current (le) at AC-4, 480 V,400 V,415 V       70 A         Rated operational current (le) at AC-4, 480 V,400 V,415 V       70 A         Rated operational current (	Screwdriver size	
Rated breaking capacity at 220/230 V650 ARated breaking capacity at 380/400 V650 ARated breaking capacity at 580/890 V650 ARated operational current (le) at AC-1, 380 V, 400 V, 415 V98 ARated operational current (le) at AC-3, 200 V, 200 V65 ARated operational current (le) at AC-3, 200 V, 200 V65 ARated operational current (le) at AC-3, 380 V, 400 V, 415 V65 ARated operational current (le) at AC-3, 200 V, 200 V65 ARated operational current (le) at AC-3, 560 V, 590 V55 ARated operational current (le) at AC-4, 200 V, 200 V, 200 V77 ARated operational current (le) at AC-4, 500 V, 200 V, 200 V77 ARated operational current (le) at AC-4, 500 V, 200 V, 200 V77 ARated operational current (le) at AC-4, 500 V, 200 V, 200 V72 ARated operational current (le) at AC-4, 500 V, 500 V72 ARated operational current (le) at AC-4, 500 V, 500 V72 ARated operational current (le) at DC-1, 100 V72 ARated operational current (le) at DC-1, 200 V55 ARated operational current (le) at DC-1, 200 V50 ARated operational power at AC-3, 200 V, 50 Hz650 VRated operational power at AC-3, 200 V, 50 Hz650 ARated operational power at AC-3, 200 V, 50 Hz650 VRated operational power at AC-3, 200 V, 50 Hz650 VRated operational power at AC-3, 200 V, 50 Hz650 VRated operational power at AC-3, 200 V, 50 Hz650 VRated operational power at AC-3, 200 V, 50 Hz650 VRated operational pow		
Rated breaking capacity at 380/400 V650 ARated breaking capacity at 560 V650 ARated breaking capacity at 660/690 V370 ARated operational current (le) at AC-3, 200 V, 200 V, 415 V88 ARated operational current (le) at AC-3, 200 V, 200 V, 200 V65 ARated operational current (le) at AC-3, 200 V, 200 V, 415 V65 ARated operational current (le) at AC-3, 380 V, 400 V, 415 V65 ARated operational current (le) at AC-3, 200 V, 200 V, 200 V65 ARated operational current (le) at AC-3, 260 V, 230 V, 240 V77 ARated operational current (le) at AC-4, 200 V, 200 V, 240 V77 ARated operational current (le) at AC-4, 200 V, 200 V, 240 V77 ARated operational current (le) at AC-4, 200 V, 200 V, 240 V77 ARated operational current (le) at AC-4, 200 V, 200 V, 240 V77 ARated operational current (le) at AC-4, 200 V, 200 V, 240 V77 ARated operational current (le) at AC-4, 400 V72 ARated operational current (le) at AC-4, 600 V, 500 V72 ARated operational current (le) at DC-1, 110 V72 ARated operational current (le) at DC-1, 220 V65 ARated operational power at AC-3, 240 V, 50 Hz600 VRated operational power at AC-3, 240 V, 50 Hz70 ARated operational power at AC-3, 240 V, 50 Hz70 ARated operational power at AC-3, 240 V, 50 Hz70 ARated operational power at AC-3, 240 V, 50 Hz70 ARated operational power at AC-3, 410 V, 50 Hz70 ARated operational power at AC-3, 410 V, 50 Hz70 A		
Rated breaking capacity at 560 V       650 A         Rated breaking capacity at 660/890 V       560 A         Rated operational current (le) at AC-1,380 V,400 V,415 V       98 A         Rated operational current (le) at AC-3,200 V,200 V       55 A         Rated operational current (le) at AC-3,380 V,400 V,415 V       56 A         Rated operational current (le) at AC-3,000 V       55 A         Rated operational current (le) at AC-3,000 V       55 A         Rated operational current (le) at AC-3,000 V       55 A         Rated operational current (le) at AC-4,200 V,200 V       55 A         Rated operational current (le) at AC-4,200 V,200 V,200 V       55 A         Rated operational current (le) at AC-4,500 V       55 A         Rated operational current (le) at AC-4,500 V       55 A         Rated operational current (le) at AC-4,500 V       55 A         Rated operational current (le) at AC-4,500 V       55 A         Rated operational current (le) at AC-4,500 V       55 A         Rated operational current (le) at AC-4,500 V       55 A         Rated operational current (le) at AC-4,500 V       56 A         Rated operational current (le) at C-1,100 V       56 A         Rated operational current (le) at C-1,200 V       56 A         Rated operational power at AC-3,204 V,50 Hz       50 KW         Rated o		
Rated breaking capacity at 660/690 V370 ARated operational current (le) at AC-1, 380 V, 400 V, 415 V96 ARated operational current (le) at AC-3, 380 V, 400 V, 415 V65 ARated operational current (le) at AC-3, 380 V, 400 V, 415 V65 ARated operational current (le) at AC-3, 660 V, 680 V55 ARated operational current (le) at AC-4, 220 V, 230 V, 240 V70 ARated operational current (le) at AC-4, 200 V, 230 V, 240 V70 ARated operational current (le) at AC-4, 200 V, 230 V, 240 V70 ARated operational current (le) at AC-4, 200 V, 230 V, 240 V70 ARated operational current (le) at AC-4, 200 V, 230 V, 240 V70 ARated operational current (le) at AC-4, 600 V, 680 V70 ARated operational current (le) at AC-4, 600 V, 680 V72 ARated operational current (le) at DC-1, 100 V72 ARated operational current (le) at DC-1, 100 V65 ARated operational current (le) at DC-1, 200 V65 ARated operational power at AC-3, 380/400 V, 50 Hz65 ARated operational power at AC-3, 380/400 V, 50 Hz65 ARated operational power at AC-3, 415 V, 50 Hz90 ARated operational power at AC-3, 500 V, 50 Hz30 kWRated operational power at AC-3, 500 V, 50 Hz30 kWRated operational power at AC-3, 500 V, 50 Hz31 kWRated operational power at AC-3, 500 V, 50 Hz41 kW<		
Rated operational current (le) at AC-1, 380 V, 400 V, 415 V98 ARated operational current (le) at AC-3, 220 V, 230 V, 240 V55 ARated operational current (le) at AC-3, 380 V, 400 V, 415 V55 ARated operational current (le) at AC-3, 500 V55 ARated operational current (le) at AC-4, 220 V, 230 V, 240 V55 ARated operational current (le) at AC-4, 220 V, 230 V, 240 V55 ARated operational current (le) at AC-4, 440 V55 ARated operational current (le) at AC-4, 500 V55 ARated operational current (le) at DC-1, 100 V56 ARated operational power at AC-3, 240 V, 50 Hz56 ARated operational power at AC-3, 340 V, 50 Hz50 VRated operational power at AC-3, 450 V, 50 Hz50 VRated operational power at AC-3, 450 V, 50 Hz50 VRated operational power at AC-3, 450 V, 50 Hz50 VWRated operational power at AC-3, 450 V, 50 Hz50 VW		
Rated operational current (le) at AC-3, 220 V, 230 V, 240 V         65 A           Rated operational current (le) at AC-3, 380 V, 400 V, 415 V         65 A           Rated operational current (le) at AC-3, 500 V         65 A           Rated operational current (le) at AC-3, 500 V         65 A           Rated operational current (le) at AC-3, 500 V         65 A           Rated operational current (le) at AC-4, 500 V         70 A           Rated operational current (le) at AC-4, 500 V         70 A           Rated operational current (le) at AC-4, 440 V         75 A           Rated operational current (le) at AC-4, 500 V         72 A           Rated operational current (le) at AC-4, 500 V         72 A           Rated operational current (le) at DC-1, 100 V         72 A           Rated operational current (le) at DC-1, 220 V         65 A           Rated operational current (le) at DC-1, 220 V         65 A           Rated operational current (le) at DC-1, 220 V         65 A           Rated operational power at AC-3, 240 V, 50 Hz         650 V           Rated operational power at AC-3, 450 V, 50 Hz         650 V           Rated operational power at AC-3, 450 V, 50 Hz         72 A           Rated operational power at AC-3, 450 V, 50 Hz         74 W           Rated operational power at AC-3, 450 V, 50 Hz         74 W           Rated operational		
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Rated operational power at AC-3, 380/400 V, 50 Hz       30 kW         Rated operational power at AC-3, 415 V, 50 Hz       30 kW         Rated operational power at AC-3, 410 V, 50 Hz       41 kW         Rated operational power at AC-3, 500 V, 50 Hz       41 kW         Rated operational power at AC-3, 690 V, 50 Hz       50 kW	Rated making capacity up to 690 V (cos phi to IEC/EN 60947)	910 A
Rated operational power at AC-3, 415 V, 50 Hz     39 kW       Rated operational power at AC-3, 440 V, 50 Hz     41 kW       Rated operational power at AC-3, 500 V, 50 Hz     47 kW       Rated operational power at AC-3, 690 V, 50 Hz     50 kW	Rated operational power at AC-3, 240 V, 50 Hz	22 kW
Rated operational power at AC-3, 440 V, 50 Hz     41 kW       Rated operational power at AC-3, 500 V, 50 Hz     41 kW       Rated operational power at AC-3, 690 V, 50 Hz     50 kW	Rated operational power at AC-3, 380/400 V, 50 Hz	30 kW
Rated operational power at AC-3, 500 V, 50 Hz     47 kW       Rated operational power at AC-3, 690 V, 50 Hz     50 KW	Rated operational power at AC-3, 415 V, 50 Hz	39 kW
Rated operational power at AC-3, 690 V, 50 Hz 35 kW	Rated operational power at AC-3, 440 V, 50 Hz	41 kW
	Rated operational power at AC-3, 500 V, 50 Hz	47 kW
Rated operational power at AC-4, 220/230 V, 50 Hz 7 kW	Rated operational power at AC-3, 690 V, 50 Hz	35 kW
	Rated operational power at AC-4, 220/230 V, 50 Hz	7 kW

Rated operational power at AC-4, 240 V, 50 Hz	7.5 kW
Rated operational power at AC-4, 240 V, 50 Hz	13 kW
Rated operational power at AC-4, 440 V, 50 Hz	14 kW
Rated operational power at AC-4, 500 V, 50 Hz	16 kW 17 kW
Rated operational power at AC-4, 660/690 V, 50 Hz	
Rated operational voltage (Ue) at AC - max	690 V
Short-circuit rating	
Short-circuit current rating (basic rating)	250 A, max. Fuse, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA) 250 A, max. CB, SCCR (UL/CSA)
Short-circuit current rating (high fault at 480 V)	30/100 kA, Fuse, SCCR (UL/CSA) 65 kA, CB, SCCR (UL/CSA) 250/150 A, Class J, max. Fuse, SCCR (UL/CSA) 100 A, max. CB, SCCR (UL/CSA)
Short-circuit current rating (high fault at 600 V)	250/150 A, Class J, max. Fuse, SCCR (UL/CSA) 30 kA, CB, SCCR (UL/CSA) 250 A, max. CB, SCCR (UL/CSA) 30/100 kA, Fuse, SCCR (UL/CSA)
Short-circuit protection rating (type 1 coordination) at 400 V	250 A gG/gL
Short-circuit protection rating (type 1 coordination) at 690 V	100 A gG/gL
Short-circuit protection rating (type 2 coordination) at 400 V	125 A gG/gL
Short-circuit protection rating (type 2 coordination) at 690 V	80 A gG/gL
Conventional thermal current Ith	
Conventional thermal current ith (1-pole, enclosed)	180 A
Conventional thermal current ith (3-pole, enclosed)	72 A
Conventional thermal current ith at 55°C (3-pole, open)	83 A
Conventional thermal current ith at 60°C (3-pole, open)	A 08
Conventional thermal current ith of main contacts (1-pole, open)	200 A
Switching capacity	
Switching capacity (main contacts, general use)	88 A, Maximum motor rating (UL/CSA)
Magnet system	
Magnet system	10 mc
Arcing time	10 ms
Arcing time Drop-out voltage	AC operated: 0.6 - 0.3 x UC, AC operated
Arcing time       Drop-out voltage       Duty factor	AC operated: 0.6 - 0.3 x UC, AC operated 100 %
Arcing time       Drop-out voltage       Duty factor       Pick-up voltage	AC operated: 0.6 - 0.3 x UC, AC operated  100 %  0.8 - 1.1 V AC x UC
Arcing time	AC operated: 0.6 - 0.3 x UC, AC operated 100 % 0.8 - 1.1 V AC x UC 149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
Arcing time       Image: Construction of the second of the s	AC operated: 0.6 - 0.3 x UC, AC operated 100 % 0.8 - 1.1 V AC x UC 149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
Arcing time         Drop-out voltage         Duty factor         Pick-up voltage         Power consumption, pick-up, 50 Hz         Power consumption, pick-up, 60 Hz         Power consumption, sealing, 50 Hz	AC operated: 0.6 - 0.3 x UC, AC operated         100 %         0.8 - 1.1 V AC x UC         149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz         16 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         4.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
Arcing time         Drop-out voltage         Duty factor         Pick-up voltage         Power consumption, pick-up, 50 Hz         Power consumption, pick-up, 60 Hz         Power consumption, sealing, 50 Hz         Power consumption, sealing, 60 Hz	AC operated: 0.6 - 0.3 x UC, AC operated         100 %         0.8 - 1.1 V AC x Uc         149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz         16 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz         11 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
Arcing time         Drop-out voltage         Duty factor         Pick-up voltage         Power consumption, pick-up, 50 Hz         Power consumption, pick-up, 60 Hz         Power consumption, sealing, 50 Hz         Power consumption, sealing, 60 Hz         Rated control supply voltage (Us) at AC, 50 Hz - min	AC operated: 0.6 - 0.3 x UC, AC operated100 %0.8 - 1.1 V AC x UC149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz16 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz24 V
Arcing timeDrop-out voltageDuty factorPick-up voltagePower consumption, pick-up, 50 HzPower consumption, pick-up, 60 HzPower consumption, sealing, 50 HzPower consumption, sealing, 60 HzRated control supply voltage (Us) at AC, 50 Hz - max	AC operated: 0.6 - 0.3 x UC, AC operated100 %0.8 - 1.1 V AC x UC149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz16 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz24 V24 V
Arcing timeDrop-out voltageDuty factorPick-up voltagePower consumption, pick-up, 50 HzPower consumption, pick-up, 60 HzPower consumption, sealing, 50 HzPower consumption, sealing, 60 HzRated control supply voltage (Us) at AC, 50 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - min	AC operated: 0.6 - 0.3 x UC, AC operated100 %0.8 - 1.1 V AC x Uc149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz16 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz24 V24 V24 V0 V
Arcing timeDrop-out voltageDuty factorPick-up voltagePower consumption, pick-up, 50 HzPower consumption, pick-up, 60 HzPower consumption, sealing, 50 HzPower consumption, sealing, 50 HzPower consumption, sealing, 60 HzRated control supply voltage (Us) at AC, 50 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - max	AC operated: 0.6 - 0.3 x UC, AC operated         100 %         0.8 - 1.1 V AC x Uc         149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz         16 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz         19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz         24 V         24 V         24 V         0 V         0 V
Arcing timeDrop-out voltageDuty factorPick-up voltagePower consumption, pick-up, 50 HzPower consumption, pick-up, 60 HzPower consumption, sealing, 50 HzPower consumption, sealing, 60 HzRated control supply voltage (Us) at AC, 50 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - min	AC operated: 0.6 - 0.3 x UC, AC operated         100 %         0.8 - 1.1 V AC x Uc         149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz         16 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz         24 V         24 V         0V
Arcing timeDrop-out voltageDuty factorPick-up voltagePower consumption, pick-up, 50 HzPower consumption, pick-up, 60 HzPower consumption, sealing, 50 HzPower consumption, sealing, 50 HzPower consumption, sealing, 60 HzRated control supply voltage (Us) at AC, 50 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - maxRated control supply voltage (Us) at AC, 60 Hz - maxRated control supply voltage (Us) at AC, 60 Hz - maxRated control supply voltage (Us) at DC - maxRated control supply voltage (Us) at DC - max	AC operated: 0.6 - 0.3 x UC, AC operated100 %0.8 - 1.1 V AC x UC149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz16 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz10 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz10 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz24 V24 V24 V0 V
Arcing timeDrop-out voltageDuty factorPick-up voltagePower consumption, pick-up, 50 HzPower consumption, pick-up, 60 HzPower consumption, sealing, 50 HzPower consumption, sealing, 50 HzPower consumption, sealing, 60 HzRated control supply voltage (Us) at AC, 50 Hz - minRated control supply voltage (Us) at AC, 50 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - maxRated control supply voltage (Us) at AC, 60 Hz - maxRated control supply voltage (Us) at AC, 60 Hz - maxRated control supply voltage (Us) at AC, 60 Hz - maxRated control supply voltage (Us) at AC, 60 Hz - maxRated control supply voltage (Us) at AC, 60 Hz - maxRated control supply voltage (Us) at DC - minRated control supply voltage (Us) at DC - maxSwitching time (AC operated, make contacts, closing delay) - min	AC operated: 0.6 - 0.3 x UC, AC operated100 %0.8 - 1.1 V AC x UC149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz16 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz24 V24 V0V0V0V0V0V0V12 ms
Arcing timeDrop-out voltageDuty factorPick-up voltagePower consumption, pick-up, 50 HzPower consumption, pick-up, 60 HzPower consumption, sealing, 50 HzPower consumption, sealing, 60 HzRated control supply voltage (Us) at AC, 50 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minSwitching time (AC operated, make contacts, closing delay) - minSwitching time (AC operated, make contacts, closing delay) - max	AC operated: 0.6 - 0.3 x UC, AC operated100 %0.8 - 1.1 V AC x Uc149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz16 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz24 V24 V24 V0 V0 V0 V0 V12 Ims18 ms
Arcing timeDrop-out voltageDuty factorPick-up voltagePower consumption, pick-up, 50 HzPower consumption, pick-up, 60 HzPower consumption, sealing, 50 HzPower consumption, sealing, 50 HzPower consumption, sealing, 60 HzRated control supply voltage (Us) at AC, 50 Hz - minRated control supply voltage (Us) at AC, 50 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - maxSwitching time (AC operated, make contacts, closing delay) - minSwitching time (AC operated, make contacts, opening delay) - min	AC operated: 0.6 - 0.3 x UC, AC operatedIO0 %0.8 - 1.1 V AC x Uc149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz16 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz24 V24 V24 V0 V0 V0 V11 R Ma12 R Ma13 R Ma14 R Ma15 R Ma16 R Ma17 R Ma17 R Ma18 R Ma18 R Ma18 R Ma
Arcing timeDrop-out voltageDuty factorPick-up voltagePower consumption, pick-up, 50 HzPower consumption, pick-up, 60 HzPower consumption, sealing, 50 HzPower consumption, sealing, 60 HzPower consumption, sealing, 60 HzRated control supply voltage (Us) at AC, 50 Hz - minRated control supply voltage (Us) at AC, 50 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - maxSwitching time (AC operated, make contacts, closing delay) - minSwitching time (AC operated, make contacts, opening delay) - maxSwitching time (AC operated, make contacts, opening delay) - maxSwitching time (AC operated, make contacts, opening delay) - maxSwitching time (AC operated, make contacts, opening delay) - max	AC operated: 0.6 - 0.3 x UC, AC operated100 %0.8 - 1.1 V AC x Uc149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz16 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz24 V24 V24 V0 V0 V0 V0 V12 Ims18 ms
Arcing timeDrop-out voltageDuty factorPick-up voltagePower consumption, pick-up, 50 HzPower consumption, pick-up, 60 HzPower consumption, sealing, 50 HzPower consumption, sealing, 60 HzPower consumption, sealing, 60 HzRated control supply voltage (Us) at AC, 50 Hz - minRated control supply voltage (Us) at AC, 50 Hz - maxRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at C - minRated control supply voltage (Us) at DC - minRated control supply voltage (Us) at DC - maxSwitching time (AC operated, make contacts, closing delay) - minSwitching time (AC operated, make contacts, closing delay) - minSwitching time (AC operated, make contacts, opening delay) - maxMotor rating	AC operated: 0.6 - 0.3 x UC, AC operated         100 %         0.8 - 1.1 V AC x Uc         149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz         16 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz         19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz         24 V         24 V         24 V         0 V         0 V         0 V         0 V         12 ms         18 ms         8 ms         13 ms
Arcing timeDrop-out voltageDuty factorPick-up voltagePower consumption, pick-up, 50 HzPower consumption, pick-up, 60 HzPower consumption, sealing, 50 HzPower consumption, sealing, 60 HzRated control supply voltage (Us) at AC, 50 Hz - minRated control supply voltage (Us) at AC, 50 Hz - maxRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - maxRated control supply voltage (Us) at AC, 60 Hz - maxRated control supply voltage (Us) at AC, 60 Hz - maxRated control supply voltage (Us) at DC - maxSwitching time (AC operated, make contacts, closing delay) - minSwitching time (AC operated, make contacts, opening delay) - minSwitching time (AC operated, make contacts, opening delay) - minSwitching time (AC operated, make contacts, opening delay) - maxSwitching time (AC operated, make contacts, opening delay) - maxSwitching time (AC operated, make contacts, opening delay) - maxSwitching time (AC operated, make contacts, opening delay) - maxSwitching time (AC operated, make contacts, opening delay) - maxSwitching time (AC operated, make contacts, opening delay) - maxSwitching time (AC operated, make contacts, opening delay) - maxSwitching time (AC operated, make contacts, opening delay) - maxSwitching time (AC operated, make contacts, opening delay) - maxSwitching time (AC operated, make contacts, opening delay) - maxSwitching time (AC operated, make contacts, opening delay) - maxSwitching time (AC operated, make contacts, opening delay) - max<	AC operated: 0.6 - 0.3 x UC, AC operated         100 %         0.8 - 1.1 V AC x Uc         149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz         16 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz         19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz         24 V         24 V         0V         0V         0V         0V         0V         0V         12 ms         13 ms         13 ms         13 ms         14 PA
Arcing timeDrop-out voltageDuty factorPick-up voltagePower consumption, pick-up, 50 HzPower consumption, pick-up, 60 HzPower consumption, sealing, 50 HzPower consumption, sealing, 60 HzRated control supply voltage (Us) at AC, 50 Hz - minRated control supply voltage (Us) at AC, 50 Hz - maxRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - maxRated control supply voltage (Us) at AC, 60 Hz - maxRated control supply voltage (Us) at AC, 60 Hz - maxRated control supply voltage (Us) at DC - maxSwitching time (AC operated, make contacts, closing delay) - minSwitching time (AC operated, make contacts, opening delay) - minSwitching time (AC operated, make contacts, opening delay) - minSwitching time (AC operated, make contacts, opening delay) - minSwitching time (AC operated, make contacts, opening delay) - minSwitching time (AC operated, make contacts, opening delay) - minSwitching time (AC operated, make contacts, opening delay) - maxSwitching time (AC operated, make contacts, opening delay) - maxSwitching time (AC operated, make contacts, opening delay) - maxSwitching time (AC operated, make contacts, opening delay) - maxSwitching time (AC operated, make contacts, opening delay) - maxSwitching time (AC operated, make contacts, opening delay) - maxSwitching time (AC operated, make contacts, opening delay) - maxSwitching time (AC operated, make contacts, opening delay) - maxSwitching time (AC operated, make contacts, opening delay) - max<	AC operated: 0.6 - 0.3 x UC, AC operated         100 %         0.8 - 1.1 V AC x Uc         149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz         178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz         19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz         24 V         24 V         0V         0V         0V         0V         0V         12 ms         18 ms         13 ms         5 HP         20 HP
Arcing timeDrop-out voltageDuty factorPick-up voltagePower consumption, pick-up, 50 HzPower consumption, pick-up, 60 HzPower consumption, pick-up, 60 HzPower consumption, sealing, 50 HzPower consumption, sealing, 60 HzRated control supply voltage (Us) at AC, 50 Hz - minRated control supply voltage (Us) at AC, 50 Hz - maxRated control supply voltage (Us) at AC, 50 Hz - maxRated control supply voltage (Us) at AC, 60 Hz - maxRated control supply voltage (Us) at DC - minRated control supply voltage (Us) at DC - maxSwitching time (AC operated, make contacts, closing delay) - minSwitching time (AC operated, make contacts, opening delay) - minSwitching time (AC operated, make contacts, opening delay) - maxMotor ratingAssigned motor power at 115/120 V, 60 Hz, 1-phaseAssigned motor power at 230/240 V, 60 Hz, 3-phaseAssigned motor power at 230/240 V, 60 Hz, 1-phase	AC operated: 0.6 - 0.3 x UC, AC operated         100 %         0.8 - 1.1 V AC x Uc         149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz         178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz         24 V         24 V         0V         0V         0V         0V         12 ms         18 ms         8 ms         13 ms         5 HP         5 HP         20 HP         15 HP
Arcing timeArcing timeDrop-out voltageDuty factorPick-up voltagePower consumption, pick-up, 50 HzPower consumption, pick-up, 60 HzPower consumption, sealing, 50 HzPower consumption, sealing, 50 HzPower consumption, sealing, 60 HzRated control supply voltage (Us) at AC, 50 Hz - minRated control supply voltage (Us) at AC, 50 Hz - maxRated control supply voltage (Us) at AC, 60 Hz - minRated control supply voltage (Us) at AC, 60 Hz - maxRated control supply voltage (Us) at DC - minRated control supply voltage (Us) at DC - minRated control supply voltage (Us) at DC - minSwitching time (AC operated, make contacts, closing delay) - minSwitching time (AC operated, make contacts, opening delay) - minSwitching time (AC operated, make contacts, opening delay) - minSwitching time (AC operated, make contacts, opening delay) - minSwitching time (AC operated, make contacts, opening delay) - maxMotor ratingAssigned motor power at 115/120 V, 60 Hz, 1-phaseAssigned motor power at 230/240 V, 60 Hz, 3-phaseAssigned motor power at 230/240 V, 60 Hz, 3-phaseAssigned motor power at 230/240 V, 60 Hz, 3-phase	AC operated: 0.6 - 0.3 x UC, AC operated         100 %         0.8 - 1.1 V AC x Uc         149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         18 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         10 V         24 V         25 HP         3 ms         3 ms         5 HP         20 HP         15 HP         20 HP         15 HP         26 HP         26 HP
Arcing timeDrop-out voltageDuty factorPick-up voltagePower consumption, pick-up, 50 HzPower consumption, pick-up, 60 HzPower consumption, pick-up, 60 HzPower consumption, sealing, 50 HzPower consumption, sealing, 60 HzRated control supply voltage (Us) at AC, 50 Hz - minRated control supply voltage (Us) at AC, 50 Hz - maxRated control supply voltage (Us) at AC, 50 Hz - maxRated control supply voltage (Us) at AC, 60 Hz - maxRated control supply voltage (Us) at DC - minRated control supply voltage (Us) at DC - maxSwitching time (AC operated, make contacts, closing delay) - minSwitching time (AC operated, make contacts, opening delay) - minSwitching time (AC operated, make contacts, opening delay) - maxMotor ratingAssigned motor power at 115/120 V, 60 Hz, 1-phaseAssigned motor power at 230/240 V, 60 Hz, 3-phaseAssigned motor power at 230/240 V, 60 Hz, 1-phase	AC operated: 0.6 - 0.3 x UC, AC operated         100 %         0.8 - 1.1 V AC x Uc         149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         19VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         19VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         19VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         19VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz         19VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz         24 V         24 V         0V         0V         0V         0V         12 ms         13 ms         13 ms         5 HP         20 HP         15 HP

Communication	
Connection	Screw terminals
Connection to SmartWire-DT	No
Contacts	
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	0
Safety	
Safe isolation	440 V AC, Between the contacts, According to EN 61140 440 V AC, Between coil and contacts, According to EN 61140
Special purpose ratings	
Special purpose rating of ballast electrical discharge lamps	88 A (480V 60Hz 3phase, 277V 60Hz 1phase) 88 A (600V 60Hz 3phase, 347V 60Hz 1phase)
Special purpose rating of definite purpose rating	65 A, FLA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 390 A, LRA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA)
Special purpose rating of elevator control	42 A, 240 V 60 Hz 3-ph, (UL/CSA) 40 A, 480 V 60 Hz 3-ph, (UL/CSA) 15 HP, 240 V 60 Hz 3-ph, (UL/CSA) 41 A, 600 V 60 Hz 3-ph, (UL/CSA) 30 HP, 480 V 60 Hz 3-ph, (UL/CSA) 10 HP, 200 V 60 Hz 3-ph, (UL/CSA) 32.2 A, 200 V 60 Hz 3-ph, (UL/CSA) 40 HP, 600 V 60 Hz 3-ph, (UL/CSA)
Special purpose rating of resistance air heating	88 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 88 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
Special purpose rating of tungsten incandescent lamps	88 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 88 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
Design verification	
Equipment heat dissipation, current-dependent Pvid	17.1 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	5.7 W
Rated operational current for specified heat dissipation (In)	65 A
Static heat dissipation, non-current-dependent Pvs	4.1 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	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) / Power contactor, AC switching (EC000066)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Power contactor, AC switching (ecl@ss13-27-37-10-03 [AAB718020])

Rated control supply voltage AC 50 Hz	V	24 - 24
Rated control supply voltage AC 60 Hz	V	0 - 0
Rated control supply voltage DC	V	0 - 0
Voltage type for actuating		AC
Number of normally closed contacts as main contact		0
Number of normally open contacts as main contact		3
Type of electrical connection of main circuit		Screw connection
Operating voltage AC 50 Hz	V	230 - 690
Operating voltage AC 60 Hz	V	230 - 690
Rated operation current le at AC-1, 400 V	А	98
Rated operation current le at AC-3, 400 V	А	65
Rated operation power at AC-3, 400 V	kW	30
Rated operation current le at AC-4, 400 V	А	25
Rated operation power at AC-4, 400 V	kW	12
Rated operation power NEMA	kW	37
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as normally closed contact		0
Modular version		No
Width	mm	55
Height	mm	115
Depth	mm	132.1