## 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	IPOO	
Frame size	FS3	
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 agains from front (EN 50274)	t direct contact when actuated
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, plugg AC-1: Non-inductive or slightly inductive loads, re AC-3: Normal AC induction motors: starting, swite	esistance furnaces
Voltage type	AC	
Ambient conditions, mechanical		
Shock resistance	7 g, N/O auxiliary contact, Mechanical, according tabletop-mounted, Half-sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to tabletop-mounted, Half-sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according tabletop-mounted, Half-sinusoidal shock 10 ms 7 g, N/O auxiliary contact, Mechanical, according sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according sinusoidal shock 10 ms	) IEC/EN 60068-2-27, Half- IEC/EN 60068-2-27 when to IEC/EN 60068-2-27 when to IEC/EN 60068-2-27, Half-
Climatic environmental conditions		
Altitude	Max. 2000 m	

Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	60 °C
Ambient operating temperature (enclosed) - min	25 °C
Ambient operating temperature (enclosed) - max	40 °C
Ambient storage temperature - min	40 °C
Ambient storage temperature - max	80 °C
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Electro magnetic compatibility	
Emitted interference	According to EN COURT 1
	According to EN 60947-1
Interference immunity	According to EN 60947-1
Terminal capacities	
Terminal capacity (copper band)	2 x (6 x 9 x 0.8) mm (Number of segments x width x thickness), Main cables
Terminal capacity (flexible with ferrule)	2 x (0.75 - 2.5) mm², Control circuit cables 1 x (0.75 - 35) mm², Main cables
	1 x (0.75 - 2.5) mm², Control circuit cables 2 x (0.75 - 25) mm², Main cables
Terminal expectity (solid)	
Terminal capacity (solid)	2 x (0.75 - 16) mm <sup>2</sup> , Main cables 1 x (0.75 - 4) mm <sup>2</sup> , Control circuit cables
	2 x (0.75 - 2.5) mm², Control circuit cables 1 x (0.75 - 16) mm², Main cables
Terminal capacity (solid/stranded AWG)	18 - 14, Control circuit cables
	Single 14 - 1, double 14 - 2, Main cables
Terminal capacity (stranded)	1 x (16 - 50) mm², Main cables 2 x (16 - 35) mm², Main cables
Stripping length (main cable)	14 mm
Stripping length (control circuit cable)	10 mm
Screw size	M3.5, Terminal screw, Control circuit cables
	M6, Terminal screw, Main cables
Screwdriver size	2, Terminal screw, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver
Tightening torque	1.2 Nm, Screw terminals, Control circuit cables 3.3 Nm, Screw terminals, Main cables
Electrical rating	
Rated breaking capacity at 220/230 V	650 A
	650 A
Rated breaking capacity at 380/400 V	650 A
Rated breaking capacity at 500 V Rated breaking capacity at 660/690 V	370 A
Rated operational current (le) at AC-1, 380 V, 400 V, 415 V	98 A
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 (Ie) at AC-3, 440 V	65 A
Rated operational current (Ie) at AC-3, 500 V	65 A
Rated operational current (le) at AC-3, 660 V, 690 V	37 A
Rated operational current (Ie) at AC-4, 220 V, 230 V, 240 V	25 A
Rated operational current (Ie) at AC-4, 440 V	25 A
Rated operational current (Ie) at AC-4, 500 V	25 A
Rated operational current (Ie) at AC-4, 660 V, 690 V	20 A
Rated operational current (Ie) at DC-1, 60 V	72 A
Rated operational current (Ie) at DC-1, 110 V	72 A
Rated operational current (Ie) at DC-1, 220 V	65 A
Rated insulation voltage (Ui)	690 V
Rated making capacity up to 690 V (cos phi to IEC/EN 60947)	910 A
Rated operational power at AC-3, 240 V, 50 Hz	22 kW
Rated operational power at AC-3, 380/400 V, 50 Hz	30 kW
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	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
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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
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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         0V         12 ms         13 ms         5 HP         5 HP         10 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         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         12 ms         13 ms         13 ms         5 HP         5 HP         13 ms         13 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 AC, 60 Hz - minRated control supply voltage (Us) at DC - maxRated 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) - 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-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 8.0**

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@ss10.0.1-27-37-10-03 [AAB718015])

Rated control supply voltage Us at AC 50HZ	١	V	24 - 24
Rated control supply voltage Us at AC 60HZ	١	V	0 - 0
Rated control supply voltage Us at DC	١	V	0 - 0
Voltage type for actuating			AC
Rated operation current le at AC-1, 400 V	ŀ	A	98
Rated operation current le at AC-3, 400 V	ł	A	65
Rated operation power at AC-3, 400 V	k	kW	30
Rated operation current le at AC-4, 400 V	ł	A	25
Rated operation power at AC-4, 400 V	k	kW	12
Rated operation power NEMA	k	kW	37
Modular version			No
Number of auxiliary contacts as normally open contact			0
Number of auxiliary contacts as normally closed contact			0
Type of electrical connection of main circuit			Screw connection
Number of normally closed contacts as main contact			0
Number of normally open contacts as main contact			3