## DATASHEET - DILM17-10(230V50HZ,240V60HZ)



Contactor, 3 pole, 380 V 400 V 7.5 kW, 1 N/O, 230 V 50 Hz, 240 V 60 Hz, AC operation, Screw terminals



Part	no.	

**EL Number** 

(Norway)

DILM17-10(230V50HZ,240V60HZ) 277004 4130334

## **General specifications**

General specifications	
Product name	Eaton Moeller® series DILM contactor
Part no.	DILM17-10(230V50HZ,240V60HZ)
EAN	4015082770044
Product Length/Depth	97 millimetre
Product height	85 millimetre
Product width	45 millimetre
Product weight	0.428 kilogram
Certifications	UL Category Control No.: NLDX CSA-C22.2 No. 60947-4-1-14 IEC/EN 60947-4-1 CSA Class No.: 2411-03, 3211-04 CSA File No.: 012528 CSA UL UL File No.: E29096 CE VDE 0660 IEC/EN 60947 UL 60947-4-1
Product Tradename	DILM
Product Type	Contactor
Product Sub Type	None
Catalog Notes	Contacts according to EN 50012
General information	
Application	Contactors for Motors
Connection	Screw terminals
Degree of protection	IPOO
Frame size	FS2
Lifespan, mechanical	10,000,000 Operations (AC operated)
Operating frequency	5000 mechanical Operations/h (AC operated)
Overvoltage category	
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	2.7 mΩ
Suitable for	Also motors with efficiency class IE3
Utilization category	AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-4: Normal AC induction motors: starting, plugging, reversing, inching 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, Half- sinusoidal shock 10 ms 6.9 g, N/O main 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 5.3 g, N/O auxiliary 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, Half- sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 3.5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms
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	2° 08
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 60947-1
Interference immunity	According to EN 60947-1
Terminal capacities	
Terminal capacity (flexible with ferrule)	1 x (0.75 - 2.5) mm², Control circuit cables 2 x (0.75 - 10) mm², Main cables 2 x (0.75 - 2.5) mm², Control circuit cables 1 x (0.75 - 16) mm², Main cables
Terminal capacity (solid)	1 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) mm <sup>2</sup> , Control circuit cables 2 x (0.75 - 10) mm <sup>2</sup> , Main cables
Terminal capacity (solid/stranded AWG)	18 - 14, Control circuit cables Single 18 - 6, double 18 - 8, Main cables
Terminal capacity (stranded)	1 x 16 mm², Main cables
Stripping length (main cable)	10 mm
Stripping length (control circuit cable)	10 mm
Screw size	M5, Terminal screw, Main cables M3.5, Terminal screw, Control circuit cables
Screwdriver size	0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
Tightening torque	1.2 Nm, Screw terminals, Control circuit cables 3.2 Nm, Screw terminals, Main cables
Electrical rating	
Rated breaking capacity at 220/230 V	170 A
Rated breaking capacity at 380/400 V	170 A
Rated breaking capacity at 500 V	170 A
Rated breaking capacity at 660/690 V	120 A
Rated operational current (Ie) at AC-1, 380 V, 400 V, 415 V	40 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	18 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	18 A
Rated operational current (Ie) at AC-3, 440 V	18 A
Rated operational current (Ie) at AC-3, 500 V	18 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	12 A
Rated operational current (Ie) at AC-4, 220 V, 230 V, 240 V	10 A
Rated operational current (Ie) at AC-4, 440 V	10 A
Rated operational current (Ie) at AC-4, 500 V	10 A
Rated operational current (Ie) at AC-4, 660 V, 690 V	8 A
Rated operational current (Ie) at DC-1, 60 V	35 A
Rated operational current (Ie) at DC-1, 110 V	35 A
Rated operational current (Ie) at DC-1, 220 V	35 A
Rated insulation voltage (Ui)	690 V
Rated making capacity up to 690 V (cos phi to IEC/EN 60947)	238 A
Rated operational power at AC-3, 240 V, 50 Hz	5.5 kW
Rated operational power at AC-3, 380/400 V, 50 Hz	7.5 kW
Rated operational power at AC-3, 415 V, 50 Hz	10 kW
Rated operational power at AC-3, 440 V, 50 Hz	10.5 kW
Rated operational power at AC-3, 500 V, 50 Hz	12 kW
Rated operational power at AC-3, 690 V, 50 Hz	11 kW
Rated operational power at AC-4, 220/230 V, 50 Hz	2.5 kW

Rated operational power at AC-4, 240 V, 50 Hz	3 kW
Rated operational power at AC-4, 415 V, 50 Hz	5 kW
Rated operational power at AC-4, 440 V, 50 Hz	5.5 kW
Rated operational power at AC-4, 500 V, 50 Hz	6 kW
Rated operational power at AC-4, 660/690 V, 50 Hz	6.5 kW
Rated operational voltage (Ue) at AC - max	690 V
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Short-circuit rating	
Short-circuit current rating (basic rating)	5 kA, SCCR (UL/CSA) 125 A, max. CB, SCCR (UL/CSA) 125 A, max. Fuse, SCCR (UL/CSA)
Short-circuit current rating (high fault at 480 V)	50/32 A, max. CB, SCCR (UL/CSA) 125/70 A, Class J, max. Fuse, SCCR (UL/CSA) 10/65 kA, CB, SCCR (UL/CSA) 10/100 kA, Fuse, SCCR (UL/CSA)
Short-circuit current rating (high fault at 600 V)	10/22 kA, CB, SCCR (UL/CSA) 10/100 kA, Fuse, SCCR (UL/CSA) 50/32 A, max. CB, SCCR (UL/CSA) 125/70 A, Class J, max. Fuse, SCCR (UL/CSA)
Short-circuit protection rating (type 1 coordination) at 400 V	63 A gG/gL
Short-circuit protection rating (type 1 coordination) at 690 V	50 A gG/gL
Short-circuit protection rating (type 2 coordination) at 400 V	35 A gG/gL
Short-circuit protection rating (type 2 coordination) at 690 V	35 A gG/gL
Conventional thermal current Ith	
Conventional thermal current ith (1-pole, enclosed)	80 A
Conventional thermal current ith (3-pole, enclosed)	32 A
Conventional thermal current ith at 55°C (3-pole, open)	37 A
Conventional thermal current ith at 60°C (3-pole, open)	35 A
Conventional thermal current ith of main contacts (1-pole, open)	88 A
Switching capacity	
Switching capacity (main contacts, general use)	40 A, Maximum motor rating (UL/CSA)
Switching capacity (auxiliary contacts, general use)	10 A, 600 V AC, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	1 A, 250 V DC, (UL/CSA) P300, DC operated (UL/CSA)
Magnet system	A600, AC operated (UL/CSA)
Arcing time	10 ms
Drop-out voltage	AC operated: 0.6 - 0.3 x UC, AC operated
Duty factor	100 %
Pick-up voltage	0.8 - 1.1 V AC x Uc
Power consumption, pick-up, 50 Hz	52 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
Power consumption, pick-up, 50 Hz	67 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
Power consumption, sealing, 50 Hz	2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 7.1 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
Power consumption, sealing, 60 Hz	2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 8.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
Rated control supply voltage (Us) at AC, 50 Hz - min	230 V
Rated control supply voltage (Us) at AC, 50 Hz - max	230 V
Rated control supply voltage (Us) at AC, 60 Hz - min	240 V
Rated control supply voltage (Us) at AC, 60 Hz - max	240 V
Rated control supply voltage (Us) at DC - min	0 V
Rated control supply voltage (Us) at DC - max	0 V
Switching time (AC operated, make contacts, closing delay) - min	16 ms
Switching time (AC operated, make contacts, closing delay) - max	22 ms
Switching time (AC operated, make contacts, opening delay) - min	8 ms
Switching time (AC operated, make contacts, opening delay) - max	14 ms
Motor rating	
Assigned motor power at 115/120 V, 60 Hz, 1-phase	2 HP
Assigned motor power at 200/208 V, 60 Hz, 3-phase	5 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase	3 HP
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Assigned motor power at 480/480 V.68 Hz, 3-phase 5 HP   Assigned motor power at 480/480 V.68 Hz, 3-phase 10 HP   Assigned motor power at 480/480 V.68 Hz, 3-phase 10 HP   Communication No   Contacts No   Contacts 1   Number of contexts (normally open contexts) 1   Number of auxiliary contacts (normally open contexts) 1   Safet is colution 400 VAC, Between the contacts, According to EN B1140   Safet is colution 400 VAC, Between the contacts, According to EN B1140   Special purpose rating of ballast electrical discharge lamps 40 VAC, Between the contacts, According to EN B1140   Special purpose rating of ballast electrical discharge lamps 40 A (800 VBH: 2)-base, 277 VBH: 1)-base)   Special purpose rating of ballast electrical discharge lamps 40 A (800 VBH: 2)-base, 277 VBH: 1)-base)   Special purpose rating of delinet purpose rating 18, A LA 480 VBH: 2)-base, 277 VBH: 1)-base)   Special purpose rating of resistance air heating 11, A 200 VBH: 2)-base, 20	
Assigned motor power at 375600 / 60 Hz, 3-phase 15 HP   Connection SinartWire-DT   Connection to SinartWire-DT No   Number of contacts (normally open contacts) 0   Number of contacts (normally open contacts) 0   Number of auxiliary contacts (normally open contacts) 0   Safe isolation 0   Safe isolation 0   Special purpose rating of balls telectrical discharge lamps 40 V AC, Between the contacts, According to EN 81140   Special purpose rating of delinite purpose rating 0 A (480V 60H2 sphase, 277V 60H2 tphase)   Special purpose rating of delinite purpose rating 0 A (480V 60H2 sphase, 277V 60H2 tphase)   Special purpose rating of delinite purpose rating 0 A (480V 60H2 sphase, 277V 60H2 tphase)   Special purpose rating of delinite purpose rating 0 A (480V 60H2 sphase, 277V 60H2 tphase)   Special purpose rating of delinite purpose rating 11 A 200 V 60 H2 sph. (UUCSA)   Special purpose rating of refrigeration control (CSA only) 13 A 200 V 60 H2 sph. (UUCSA)   Special purpose rating of trefrigeration control (CSA only) 0 A, 480 V 60 H2 sphase, 277 V 60 H2 tphase, (UUCSA)   Special purpose rating of trefrigeration control (CSA only) 0 A, 480 V 60 H2 sphase, (UUCSA)   Special purpose rating of trefrigerati	
Communication   Connection to SmartWire-DT   No     Contacts   1   1     Number of contacts (normally closed contacts)   0   1     Number of auxiliary contacts (normally closed contacts)   0   1     Safety   1   0     Safe isolation   400 V AC, Breveen the contacts, According to EN 81140   0     Special purpose rating of ballast electrical discharge lamps   40 V AC, Breveen the contacts, According to EN 81140     Special purpose rating of definite purpose rating   40 A (400 V 60H-2 sphase, 277V 60H-1 phase)     Special purpose rating of definite purpose rating   14, 200 V 60H-2 sph, 100,000 cycles acc. to UL 1995, (ULCS)     Special purpose rating of elevator control   Special purpose rating of refrigeration control (CSA only)   14, 200 V 60H 2 sph, 100,000 cycles acc. to UL 1995, (ULCSA)     Special purpose rating of refrigeration control (CSA only)   40 A (400 V 60H 2 sphase, 277V 60H 2 sphase, (UCSA)   11 A 400 V 60H 2 sphase, 277V 60H 2 sphase, (ULCSA)     Special purpose rating of refrigeration control (CSA only)   40 A (400 V 60H 2 sphase, 277V 60H 2 sphase, (ULCSA)   11 A 400 V 60H 2 sphase, 277V 60H 2 sphase, (ULCSA)     Special purpose rating of refrigeration control (CSA only)   40 A (400 V 60H 2 sphase, 277V 60H 2 sphase, 277V 60H 2 sphase, 277V 60H 2 sphase, 277V 60H 2 sphase,	
Connection SmartWire-DT No   Connection SmartWire-DT 1   Number of contacts (normally open contacts) 0   Number of auxiliary contacts (normally open contacts) 0   Number of auxiliary contacts (normally open contacts) 0   Safe isolation 400 V AC, Between the contacts, According to EN 61140   Safe isolation 400 V AC, Between the contacts, According to EN 61140   Special purpose rating of ballast electrical discharge lamps 40 A (400 V 60H2 3phase, 37V 60H2 1phase)   Special purpose rating of delivator control 18 A, FLA 480 V 60 H2 3phase, 37V 60H2 1phase)   Special purpose rating of delivator control 18 A, FLA 480 V 60 H2 3phase, 37V 60H2 1phase)   Special purpose rating of delivator control 18 A, FLA 480 V 60 H2 3ph, 10U, CSA)   Special purpose rating of delivator control 18 A, FLA 480 V 60 H2 3ph, 10U, CSA)   Special purpose rating of refrigeration control (CSA only) 18 A, FLA 480 V 60 H2 3ph, 10U, CSA)   Special purpose rating of trefrigeration control (CSA only) 18 A, FLA 480 V 60 H2 3phase, (CSA)   Special purpose rating of trefrigeration control (CSA only) 18 A, FLA 480 V 60 H2 3phase, (CSA)   Special purpose rating of trefrigeration control (CSA only) 18 A, FLA 480 V 60 H2 3phase, (CSA)   Special purpose rating of trefrigeration control (C	
Contacts Image: Contacts (normally open contacts) Image: Contacts (normally open contacts)   Number of auxiliary contacts (normally open contacts) Image: Contacts (normally open contacts)   Number of auxiliary contacts (normally open contacts) Image: Contacts (normally open contacts)   Safety Image: Contacts (normally open contacts)   Safe isolation 40 V AC, Between coil and contacts, According to EN 81140   Special purpose rating of ballst electrical discharge lamps 40 A (400 60H: 2 phase, 277 60H: [phase])   Special purpose rating of ballst electrical discharge lamps 40 A (400 60H: 2 phase, 277 60H: [phase])   Special purpose rating of delvator control Image: Control (UCSA)   Special purpose rating of elevator control Image: Control (UCSA)   Special purpose rating of elevator control Image: Control (UCSA)   Special purpose rating of refrigeration control (CSA only) Image: Control (UCSA)   Special purpose rating of refrigeration control (CSA only) Image: Control (UCSA)   Special purpose rating of transfere in heating Image: Control (UCSA)   Special purpose rating of refrigeration control (CSA only) Image: Control (UCSA)   Special purpose rating of refrigeration control (CSA only) Image: Control (UCSA)   Special purpose rating of resistance air heating Image:	
Number of contacts (normally open contacts) I   Number of auxiliary contacts (normally open contacts) I   Safety I   Safe isolation I   Special purpose rating of ballast electrical discharge lamps 440 V AC, Between the contacts, According to EN 51140   Special purpose rating of definite purpose rating I   Special purpose rating of definite purpose rating 40 A (480W 60Hz 3phase, 377W 60Hz 1phase)   Special purpose rating of definite purpose rating II A (2000 V60Hz 3phase, 377W 60Hz 1phase)   Special purpose rating of definite purpose rating II A, 200 V60 Hz 3ph, 100,000 cycles acc. to UL 1995, (UUCSA)   Special purpose rating of elevator control II A, 200 V60 Hz 3ph, 100,000 cycles acc. to UL 1995, (UUCSA)   Special purpose rating of rating ration control (CSA only) II A, 200 V60 Hz 3ph, (UUCSA)   Special purpose rating of rating ration control (CSA only) III A, 400 V60 Hz 3ph, (UUCSA)   Special purpose rating of rating ration control (CSA only) III A, 400 V60 Hz 3ph, 200, CUSA)   Special purpose rating of rating ration control (CSA only) III A, 400 V60 Hz 3phase, 377 V60 Hz 1phase, (UUCSA)   Special purpose rating of rating ration control (CSA only) IIII A, 400 V60 Hz 3phase, 377 V60 Hz 1phase, (UUCSA)   Special purpose rating of ratingsten incandescent lamps 40 A, 400 V60 H	
Number of auxiliary contacts (normally open contacts) 0   Number of auxiliary contacts (normally open contacts) 1   Safety 1   Safe isolation 440 V AC, Between the contacts, According to EN 61140   Special purpose ratings 440 V AC, Between the contacts, According to EN 61140   Special purpose rating of definite purpose rating 40 A (480V 60Hz 3phase, 277V 60Hz 1phase)   Special purpose rating of definite purpose rating 40 A (480V 60Hz 3phase, 277V 60Hz 1phase)   Special purpose rating of delivator control 11 A 200 V 60 Hz 3ph, 10000 cycles acc. to UL 1995, (UUCS 108 A, LFA 480 V 60 Hz 3ph, 10000 cycles acc. to UL 1995, (UUCS 108 A, LFA 480 V 60 Hz 3ph, 10000 cycles acc. to UL 1995, (UUCS 108 A, LFA 480 V 60 Hz 3ph, 10000 cycles acc. to UL 1995, (UUCS 108 A, LFA 480 V 60 Hz 3ph, 10000 cycles acc. to UL 1995, (UUCS 2) 10 A, 200 V 60 Hz 3ph, 10000 cycles acc. to UL 1995, (UUCS 3) 10 Hz 3ph, 10000 cycles acc. to UL 1995, (UUCS 3) 10 Hz 3ph, 10000 cycles acc. to UL 1995, (UUCS 3) 10 Hz 3ph, 10000 cycles acc. to UL 1995, (UUCS 3) 10 Hz 3ph, 10000 cycles acc. to UL 1995, (UUCS 3) 10 Hz 3ph, 10000 cycles acc. to UL 1995, (UUCS 3) 10 Hz 3ph, 10000 cycles acc. to UL 1995, (UUCS 3) 10 Hz 3ph, 10000 cycles acc. to UL 1995, (UUCS 3) 10 Hz 3ph, 10000 cycles acc. to UL 1995, (UUCS 3) 10 Hz 3ph, 10000 cycles acc. to UL 1995, (UUCS 3) 10 Hz 3ph, 10000 cycles acc. to UL 1995, (UUCS 3) 10 Hz 3ph 2000 Cycles acc. to UL 1995, (UUCS 3) 10 Hz 3ph 2000 Cycles acc. to UL 1995, (UUCS 3) 10 Hz 3ph 2000 Cycles acc. to UL 1995, (UUCS 3) 10 Hz 3ph 2000 Cycles acc. to UL 1995, (UUCS 3) 10 Hz 3ph 2000 Cycles accc. to UL 1995, (UUCS 3) 10 Hz 3ph 2000 Cycles acc. to UL 1995, (U	
Number of auxiliary contacts (normally open contacts) I   Safe isolation I   Safe isolation I   Special purpose ratings I   Special purpose rating of ballast electrical discharge lamps I   Special purpose rating of definite purpose rating I   Special purpose rating of definite purpose rating I   Special purpose rating of definite purpose rating I   Special purpose rating of elevator control I   Special purpose rating of refrigeration control (CSA only) I   Special purpose rating of refrigeration control (CSA only) I   Special purpose rating of tungsten incandescent lamps I   Special purpose rating of refrigeration control (CSA only) I   Special purpose rating of refrigeration control (CSA only) I   Special purpose rating of refrigeration control (CSA only) I   Special purpose rating of refrigeration control (CSA only) I   Special purpose rating of tungsten incandescent lamps I   Special purpose rating of refrigeration control (CSA only) I   Special purpose rating of refrigeration control (CSA only) I   Special purpose rating of refrigeration control (CSA only) I	
Safe isolation 440 V AC, Between the contacts, According to EN 61140   Safe isolation 440 V AC, Between coil and contacts, According to EN 61140   Special purpose rating of ballast electrical discharge lamps 40 A (480V 60Hz 3phase, 27V 60Hz 1phase)   Special purpose rating of definite purpose rating 18 A, FLA 480 V 60Hz 3phase, 27V 60Hz 1phase)   Special purpose rating of definite purpose rating 18 A, FLA 480 V 60 Hz 3phase, 27V 60Hz 1phase)   Special purpose rating of definite purpose rating 18 A, FLA 480 V 60 Hz 3ph, 100,000 cycles acc. to UL 1995, 10U/CS   Special purpose rating of elevator control 38 A, 240 V 60 Hz 3ph, 10U/CSA)   Special purpose rating of refrigeration control (CSA only) 11 A, 400 V 60 Hz 3ph, 10U/CSA)   Special purpose rating of refrigeration control (CSA only) 180 A, LRA 600 V 60 Hz 3phase; (CSA)   Special purpose rating of refrigeration control (CSA only) 180 A, LRA 600 V 60 Hz 3phase; (CSA)   Special purpose rating of refrigeration control (CSA only) 180 A, LRA 600 V 60 Hz 3phase; (CSA)   Special purpose rating of refrigeration control (CSA only) 180 A, LRA 600 V 60 Hz 3phase; (CSA)   Special purpose rating of refrigeration control (CSA only) 180 A, LRA 600 V 60 Hz 3phase; (CSA)   Special purpose rating of refrigeration control (CSA only) 180 A, LRA 600 V 60 Hz 3phase; (CSA)   Special purpose rating of refrige	
Safe isolation 440 V AC, Between the contacts, According to EN 61140   Special purpose ratings 440 V AC, Between coil and contacts, According to EN 61140   Special purpose rating of ballast electrical discharge lamps 40 A (490V 60H2 3phase, 277V 60H2 1phase)   Special purpose rating of definite purpose rating 18 A, FLA 480 V 60 H2 3ph, 100,000 cycles acc. to UL 1995, (UL/CSA)   Special purpose rating of elevator control 11 A, 200 V 60 H2 3ph, 100,000 cycles acc. to UL 1995, (UL/CSA)   Special purpose rating of refrigeration control 11 A, 200 V 60 H2 3ph, (UL/CSA)   Special purpose rating of refrigeration control (CSA only) 11 A, 200 V 60 H2 3ph, (UL/CSA)   Special purpose rating of refrigeration control (CSA only) 180 A, LRA 600 V 60 H2 3phase; (CSA)   Special purpose rating of refrigeration control (CSA only) 100 A (400 V 60 H2 3phase; (CSA)   Special purpose rating of refrigeration control (CSA only) 100 A (400 V 60 H2 3phase; (CSA)   Special purpose rating of refrigeration control (CSA only) 40 A (400 V 60 H2 3phase; (CSA)   Special purpose rating of refrigeration control (CSA only) 40 A (400 V 60 H2 3phase; (CSA)   Special purpose rating of refrigeration control (CSA only) 40 A (400 V 60 H2 3phase; (CSA)   Special purpose rating of refrigeration control (CSA only) 40 A (400 V 60 H2 3phase; (CSA)   Special purpose rating of tungsten	
Special purpose ratings 440 V AC, Between coil and contacts, According to EN 61140   Special purpose rating of ballast electrical discharge lamps 40 A (400V 60H: 3phase, 277V 60H: 1phase)   Special purpose rating of definite purpose rating 18 A, FLA 400 V 60H: 3phase, 347V 60H: 1phase)   Special purpose rating of elevator control 840 V 60H: 3phase, 347V 60H: 1phase)   Special purpose rating of elevator control 840 V 60H: 3phase, 347V 60H: 1phase)   Special purpose rating of refrigeration control (CSA only) 11 A, 200 V 60H: 3phase, 270V (UUCSA)   Special purpose rating of refrigeration control (CSA only) 400 V 60H: 3phase, 270V 60H: 2ph. (UUCSA)   Special purpose rating of refrigeration control (CSA only) 400 V 60H: 3phase, (UUCSA)   Special purpose rating of refrigeration control (CSA only) 400 V 60H: 3phase, (CSA)   Special purpose rating of refrigeration control (CSA only) 400 V 60H: 3phase, 270V 60H: 3phase, (CSA)   Special purpose rating of refrigeration control (CSA only) 400 V 60H: 3phase, 277V V 60H: 3phase, (CSA)   Special purpose rating of refrigeration control (CSA only) 40 V 60H: 3phase, 277V V 60H: 3phase, (CSA)   Special purpose rating of refrigeration control (CSA only) 40 V 60H: 3phase, 277V V 60H: 3phase, (CSA)   Special purpose rating of refrigeration control (CSA only) 40 V 60H: 3phase, 377V V 60H: 2phase, 40 V 60H: 3phase, 277V 60H: 2phase, 40 V 60	
Special purpose rating of ballast electrical discharge lamps 40 A (480V 60H2 3phase, 377V 60H2 1phase)   Special purpose rating of definite purpose rating 18 A, FLA 480 V 60 H2 3ph, 100,000 cycles acc. to UL 1995, (UL/CS)   Special purpose rating of elevator control 18 A, FLA 480 V 60 H2 3-ph, 100,000 cycles acc. to UL 1995, (UL/CS)   Special purpose rating of elevator control 19 A, 200 V 60 H2 3-ph, (UL/CSA)   Special purpose rating of refrigeration control (CSA only) 11 A, 200 V 60 H2 3-ph, (UL/CSA)   Special purpose rating of refrigeration control (CSA only) 180 A, FLA 480 V 60 H2 3phase; (CSA)   Special purpose rating of refrigeration control (CSA only) 180 A, FLA 480 V 60 H2 3phase; (CSA)   Special purpose rating of refrigeration control (CSA only) 180 A, FLA 480 V 60 H2 3phase; (CSA)   Special purpose rating of refrigeration control (CSA only) 180 A, FLA 480 V 60 H2 3phase; (CSA)   Special purpose rating of refrigeration control (CSA only) 180 A, FLA 480 V 60 H2 3phase; (CSA)   Special purpose rating of targsten incandescent lamps 40 A, 480 V 60 H2 3phase; 277 V 60 H2 1phase, (UL/CSA)   Special purpose rating of targsten incandescent lamps 40 A, 480 V 60 H2 3phase; 277 V 60 H2 1phase, (UL/CSA)   Special purpose rating of targsten incandescent lamps 40 A, 480 V 60 H2 3phase; 277 V 60 H2 1phase, (UL/CSA)   Special purpose rating of targsten incandescent lamps 40	
Special purpose rating of definite purpose rating IMA (600V 60Hz 3phase, 347V 60Hz 1phase)   Special purpose rating of definite purpose rating IMA , FLA 480 V 60 Hz 3ph, 100,000 cycles acc. to UL 1995, (UL/CS A)   Special purpose rating of elevator control IMA , FLA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CS A)   Special purpose rating of elevator control IMA , FLA 480 V 60 Hz 3-ph, 100,CSA)   Special purpose rating of refrigeration control (CSA only) IMA , 800 V 60 Hz 3-ph, 100,CSA)   Special purpose rating of refrigeration control (CSA only) IMA , 800 V 60 Hz 3-ph, 100,CSA)   Special purpose rating of refrigeration control (CSA only) IMA , 800 V 60 Hz 3ph, 100,CSA)   Special purpose rating of refrigeration control (CSA only) IMA , 800 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)   Special purpose rating of refrigeration control (CSA only) IMA , 800 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)   Special purpose rating of refrigeration control (CSA only) IMA , 800 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)   Special purpose rating of tugsten incandescent lamps IMA A (600 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)   Special purpose rating of tugsten incandescent lamps IMA A (600 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)   Special purpose rating of tugsten incandescent lamps IMA A (600 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)   Special purpose rating of tugst	
Special purpose rating of elevator control IA A 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/C   Special purpose rating of elevator control IA A 600 V 60 Hz 3-ph, (UL/CSA)   Special purpose rating of elevator control IA A 600 V 60 Hz 3-ph, (UL/CSA)   Special purpose rating of refrigeration control (CSA only) IA A 600 V 60 Hz 3-ph, (UL/CSA)   Special purpose rating of refrigeration control (CSA only) IB A A LRA 600 V 60 Hz 3-ph, (UL/CSA)   Special purpose rating of refrigeration control (CSA only) IB A A LRA 600 V 60 Hz 3-phse; (CSA)   Special purpose rating of refrigeration control (CSA only) IB A A LRA 600 V 60 Hz 3-phse; (CSA)   Special purpose rating of refrigeration control (CSA only) IB A A LRA 600 V 60 Hz 3-phse; (CSA)   Special purpose rating of refrigeration control (CSA only) IB A A LRA 600 V 60 Hz 3-phse; (CSA)   Special purpose rating of refrigeration control (CSA only) IB A A LRA 600 V 60 Hz 3-phse; (CSA)   Special purpose rating of resistance air heating IB A A LRA 600 V 60 Hz 3-phase; (CSA)   Special purpose rating of tungsten incandescent lamps IB A A 600 V 60 Hz 3-phase; (CSA)   Special purpose rating of tungsten incandescent lamps IB A A 600 V 60 Hz 3-phase; II A 600 V 60 Hz 3-phase;	
Special purpose rating of refrigeration control (CSA only) Special purpose rating of refrigeration control (CSA only) Special purpose rating of refrigeration control (CSA only)   Special purpose rating of refrigeration control (CSA only) Special purpose rating of refrigeration control (CSA only) Special purpose rating of refrigeration control (CSA only)   Special purpose rating of refrigeration control (CSA only) Special purpose rating of refrigeration control (CSA only) Special purpose rating of refrigeration control (CSA only)   Special purpose rating of resistance air heating Special purpose rating of resistance air heating Special purpose rating of tungsten incandescent lamps   Special purpose rating of tungsten incandescent lamps Special purpose rating of tungsten incandescent lamps Special purpose rating of tungsten incandescent lamps   Equipment heat dissipation, current-dependent Pvid Special purpose rating of tungsten incandescent lamps Special purpose rating of tungsten incandescent lamps   Equipment heat dissipation, current-dependent Pvid Special purpose rating of tungsten incandescent lamps Special purpose rating of tungsten incandescent lamps   Equipment heat dissipation, current-dependent Pvid Special purpose rating of tungsten incandescent lamps Special purpose rating of tungsten incandescent lamps   Equipment heat dissipation, current-dependent Pvid Special purpose rating of tungsten incandescent lamps Special purpose rating of tungsten incandescen	
A A A B A A B A A A A B A A A A B A A A A B A	
Image: Section Provides the section of tungsten incandescent lamps 40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)   Special purpose rating of tungsten incandescent lamps 40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)   Design verification 40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)   Equipment heat dissipation, current-dependent Pvid 21 W   Heat dissipation capacity Pdiss 0 W   Heat dissipation per pole, current-dependent Pvid 0 W   Rated operational current for specified heat dissipation (In) 18 A   Static heat dissipation, non-current-dependent Pvs 21 W   10.2.2 Corrosion resistance Meets the product standard's requirements.   10.2.3.1 Verification of thermal stability of enclosures Meet step product standard's requirements.	
Design verification 40 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)   Equipment heat dissipation, current-dependent Pvid 2.1 W   Heat dissipation capacity Pdiss 0 W   Heat dissipation per pole, current-dependent Pvid 0.7 W   Rated operational current for specified heat dissipation (In) 18 A   Static heat dissipation, non-current-dependent Pvs 2.1 W   10.2.2 Corrosion resistance Meets the product standard's requirements.   10.2.3.1 Verification of thermal stability of enclosures Get the product standard's requirements.	
Equipment heat dissipation, current-dependent Pvid2.1 WHeat dissipation capacity Pdiss0 WHeat dissipation per pole, current-dependent Pvid0.7 WRated operational current for specified heat dissipation (In)18 AStatic heat dissipation, non-current-dependent Pvs2.1 W10.2.2 Corrosion resistanceMeets the product standard's requirements.10.2.3.1 Verification of thermal stability of enclosuresMeets the product standard's requirements.	
Heat dissipation capacity Pdiss0 WHeat dissipation per pole, current-dependent Pvid0.7 WRated operational current for specified heat dissipation (In)18 AStatic heat dissipation, non-current-dependent Pvs2.1 W10.2.2 Corrosion resistanceMeets the product standard's requirements.10.2.3.1 Verification of thermal stability of enclosuresMeets the product standard's requirements.	
Heat dissipation per pole, current-dependent Pvid0.7 WRated operational current for specified heat dissipation (In)18 AStatic heat dissipation, non-current-dependent Pvs2.1 W10.2.2 Corrosion resistanceMeets the product standard's requirements.10.2.3.1 Verification of thermal stability of enclosuresMeets the product standard's requirements.	
Rated operational current for specified heat dissipation (In) 18 A   Static heat dissipation, non-current-dependent Pvs 2.1 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.	
Static heat dissipation, non-current-dependent Pvs 2.1 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.	
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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 evaluate	d.
10.2.6 Mechanical impact Does not apply, since the entire switchgear needs to be evaluate	d.
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 evaluate	d.
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 evaluate	d.
10.6 Incorporation of switching devices and components Does not apply, since the entire switchgear needs to be evaluate	d.
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	
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 calculat provide heat dissipation data for the devices.	
10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the sw observed.	on. Eaton will

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)

lectric engineering, automation, process control engineering / Low-voltage s	vitch technology / Conta	actor (LV) / Power contactor, AC switching (ecl@ss13-27-37-10-03 [AAB718020])
Rated control supply voltage AC 50 Hz	V	230 - 230
Rated control supply voltage AC 60 Hz	V	240 - 240
Rated control supply voltage DC	V	0 - 0
/oltage 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	24 - 690
Operating voltage AC 60 Hz	V	24 - 690
Rated operation current le at AC-1, 400 V	А	40
Rated operation current le at AC-3, 400 V	А	18
Rated operation power at AC-3, 400 V	kW	7.5
Rated operation current le at AC-4, 400 V	А	10
Rated operation power at AC-4, 400 V	kW	4.5
Rated operation power NEMA	kW	7.4
Number of auxiliary contacts as normally open contact		1
Number of auxiliary contacts as normally closed contact		0
Nodular version		No
Nidth	mm	45
leight	mm	85
Depth	mm	97