DATASHEET - DILM32-10(415V50HZ,480V60HZ)



Contactor, 3 pole, 380 V 400 V 15 kW, 1 N/O, 415 V 50 Hz, 480 V 60 Hz, AC operation, Screw terminals



Part no.

DILM32-10(415V50HZ,480V60HZ) 277263

General specifications	
Product name	Eaton Moeller® series DILM contactor
Part no.	DILM32-10(415V50HZ,480V60HZ)
EAN	4015082772635
Product Length/Depth	97 millimetre
Product height	85 millimetre
Product width	45 millimetre
Product weight	0.428 kilogram
Certifications	IEC/EN 60947
	CSA UL VDE 0660
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	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	2.7 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, 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 3.5 g, N/C 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 6.9 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, 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 - max Image: Compatibility Bit of the compatibity Bit of the compatibility Bit	Ambient stores to merceture min	10.00
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Turnind capachy fluctile with famile)Image: Status and Status a		
Image: Statistic Statis		$1 \times (0.75 - 16) \text{ mm}^2$ Main cables
Terminal capacity isoliticstanded AWGI Present capacity isoliticstanded AWGI Terminal capacity isoliticstanded AWGI To mail Stropping length (noine cable) <		2 x (0.75 - 10) mm ² , Main cables 1 x (0.75 - 2.5) mm ² , Control circuit cables 2 x (0.75 - 2.5) mm ² , Control circuit cables 2 x (0.75 - 10) mm ² , Main cables 1 x (0.75 - 4) mm ² , Control circuit cables 1 x (0.75 - 16) mm ² , Main cables
Shipping length (control circuit cable)In mmStrepping length (control circuit cables)In mmScrewfulver size2.4 SU 2 Birming lacrew, Control dircuit cablesScrewfulver size2.4 SU 2 Birming lacrew, Control dircuit cablesTythening taraye2.4 SU 2 Birming lacrew, Control dircuit cablesTythening taraye2.4 SU 2 Birming lacrew, Control dircuit cablesScrewfulver size2.4 SU 2 Birming lacrew, Control dircuit cablesTythening taraye2.4 SU 2 Birming lacrew, Control dircuit cablesScrewfulver size2.4 SU 2 Birming lacrew, Control dircuit cables	Terminal capacity (solid/stranded AWG)	18 - 14, Control circuit cables
Shipping length (control circuit cable)In mmScrew sizeMs, Terminal screw, Chord circuit cablesScrew sizeQa x SA's Kam, Terminal screw, Chord circuit cablesTaphtening torqueQa x SA's Kam, Terminal screw, Chord circuit cablesTaphtening torque200 x SA's Kam, Terminal screw, Chord circuit cablesScrew sizeQa x SA's Kam, Terminal screw, Chord circuit cablesTaphtening torque300 ARatch trasking capacity xt 2000/V300 ARatch capacity carrent (lei xt AC-5, 400 V300 ARatch capacity carrent (lei xt AC-6,	Terminal capacity (stranded)	1 x 16 mm², Main cables
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Electrical rating 22 km, Screw terminels, Mein cables Rated breaking capacity at 220230 V 200 A Rated breaking capacity at 500 V 200 A Rated breaking capacity at 500 V 200 A Rated breaking capacity at 500 V 200 A Rated operational current (le) AL AC-1, 300 V, 400 V, 415 V 200 A Rated operational current (le) AL AC-3, 300 V, 400 V, 415 V 200 A Rated operational current (le) AL AC-3, 300 V, 400 V, 415 V 200 A Rated operational current (le) AL AC-3, 300 V, 400 V, 415 V 200 A Rated operational current (le) AL AC-3, 300 V, 400 V, 415 V 200 A Rated operational current (le) AL AC-3, 300 V, 400 V, 415 V 200 A Rated operational current (le) AL AC-3, 500 V, 500 V 200 A Rated operational current (le) AL AC-4, 200 V, 230 V, 240 V 200 A Rated operational current (le) AL AC-4, 200 V, 230 V, 240 V 200 A Rated operational current (le) AL AC-4, 200 V, 230 V, 240 V 200 A Rated operational current (le) AL AC-4, 200 V, 230 V, 240 V 200 A Rated operational current (le) AL AC-4, 200 V, 230 V, 240 V 200 A Rated operational current (le) AL AC-4, 500 V, 500 V 15A Rated operational current (le) AL AC-4, 500 V, 500 V 15A Rated operational current (le) AL AC-1, 500 V, 500 V 200 V Rated operatinol current (le) AL AC-1,	Screwdriver size	
Rated breaking capacity at 220/20 V220 ARated breaking capacity at 380/400 V220 ARated breaking capacity at 380/400 V220 ARated breaking capacity at 380/400 V220 ARated operational current (le) at AC-1, 320 V, 400 V, 415 V55 ARated operational current (le) at AC-3, 380 V, 400 V, 415 V22 ARated operational current (le) at AC-3, 380 V, 400 V, 415 V22 ARated operational current (le) at AC-3, 380 V, 400 V, 415 V22 ARated operational current (le) at AC-3, 380 V, 400 V, 415 V22 ARated operational current (le) at AC-3, 480 V, 580 V22 ARated operational current (le) at AC-4, 300 V22 ARated operational current (le) at AC-4, 500 V24 ARated operational current (le) at AC-4, 200 V, 200 V, 200 V15 ARated operational current (le) at AC-4, 400 V15 ARated operational current (le) at AC-4, 500 V24 A	Tightening torque	
Rated breaking capacity at 380,400 V 200 A Rated breaking capacity at 600,600 V 200 A Rated breaking capacity at 600,600 V 800 A Rated operational current (ile) at AC-1,300 V,400 V,415 V 22 A Rated operational current (ile) at AC-3,200 V,200 V 22 A Rated operational current (ile) at AC-3,200 V,200 V 22 A Rated operational current (ile) at AC-3,200 V,200 V 22 A Rated operational current (ile) at AC-3,200 V,200 V 22 A Rated operational current (ile) at AC-3,400 V 22 A Rated operational current (ile) at AC-3,400 V 22 A Rated operational current (ile) at AC-4,200 V,200 V,240 V 22 A Rated operational current (ile) at AC-4,200 V,200 V,240 V 23 A Rated operational current (ile) at AC-4,500 V,600 V 15 A Rated operational current (ile) at AC-4,600 V,600 V 15 A Rated operational current (ile) at AC-4,500 V,600 V 20 A Rated operational current (ile) at AC-4,600 V,600 V 20 A Rated operational current (ile) at AC-4,600 V,600 V 20 A Rated operational current (ile) at AC-4,500 V,500 V 20 A Rated operational current (ile) at AC-4,600 V,600 V 20 A Rated operational current (ile) at AC-4,600 V,600 V 20 A Rated operational current (ile) at AC-4,200 V,50 Hz 20 A Rated o	Electrical rating	
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Rated breaking capacity at 660/050 V 100 A Rated operational current (la) at AC-1, 380 V, 400 V, 415 V 45 A Rated operational current (la) at AC-3, 380 V, 400 V, 415 V 22 A Rated operational current (la) at AC-3, 340 V 22 A Rated operational current (la) at AC-3, 500 V 22 A Rated operational current (la) at AC-3, 500 V 18 A Rated operational current (la) at AC-4, 500 V 15 A Rated operational current (la) at AC-4, 500 V, 500 V 15 A Rated operational current (la) at AC-4, 500 V, 500 V 15 A Rated operational current (la) at AC-4, 500 V, 500 V 15 A Rated operational current (la) at AC-4, 500 V, 500 V 15 A Rated operational current (la) at AC-4, 500 V, 500 V 15 A Rated operational current (la) at AC-4, 500 V, 500 V 40 A Rated operational current (la) at DC-1, 100 V 40 A Rated operational current (la) at DC-1, 220 V 500 V Rated operational power at AC-3, 400 V, 50 Hz 11 KW Rated operational power at AC-3, 400 V, 50 Hz 11 KW Rated operational power at AC-3, 500 V, 50 Hz 12 KW Rated operational power at AC-3, 400 V, 50 Hz 12 KW Rated operational power at AC-3, 400 V, 50 Hz <td>Rated breaking capacity at 380/400 V</td> <td>320 A</td>	Rated breaking capacity at 380/400 V	320 A
Rated operational current (le) at AC-1, 380 Y, 400 Y, 415 V 45 A Rated operational current (le) at AC-3, 220 Y, 230 Y, 240 V 32 A Rated operational current (le) at AC-3, 230 Y, 240 V 32 A Rated operational current (le) at AC-3, 380 Y, 400 Y, 415 V 32 A Rated operational current (le) at AC-3, 500 V 32 A Rated operational current (le) at AC-3, 500 V 32 A Rated operational current (le) at AC-4, 200 Y, 200 Y, 240 V 15 A Rated operational current (le) at AC-4, 200 Y, 200 Y, 240 V 15 A Rated operational current (le) at AC-4, 200 Y, 200 Y, 240 V 15 A Rated operational current (le) at AC-4, 500 V 15 A Rated operational current (le) at AC-4, 500 Y, 500 V 40 A Rated operational current (le) at DC-1, 500 V 40 A Rated operational current (le) at DC-1, 100 V 650 V Rated operational current (le) at DC-1, 200 Y 50 Y Rated operational purrent AC-3, 400 Y, 50 Hz 11 kW Rated operational purent AC-3, 400 Y, 50 Hz 15 KW Rated operational power at AC-3, 400 Y, 50 Hz 15 KW Rated operational power at AC-3, 400 Y, 50 Hz 15 KW Rated operational power at AC-3, 400 Y, 50 Hz 15 KW Rated operatio	Rated breaking capacity at 500 V	320 A
Reted operational current (le) at AC-3, 220 V, 230 V, 400 V, 415 V32 ARated operational current (le) at AC-3, 300 V, 400 V, 415 V32 ARated operational current (le) at AC-3, 500 V32 ARated operational current (le) at AC-3, 500 V32 ARated operational current (le) at AC-4, 200 V, 230 V, 240 V18 ARated operational current (le) at AC-4, 200 V, 230 V, 240 V15 ARated operational current (le) at AC-4, 400 V15 ARated operational current (le) at AC-4, 660 V, 690 V15 ARated operational current (le) at AC-4, 660 V, 690 V15 ARated operational current (le) at AC-4, 660 V, 690 V12 ARated operational current (le) at AC-1, 60 V40 ARated operational current (le) at DC-1, 10 V40 ARated operational current (le) at DC-1, 10 V690 VRated operational current (le) at DC-1, 220 V690 VRated operational power at AC-3, 340, 50 Hz690 VRated operational power at AC-3, 340, 50 Hz15 KWRated operational power at AC-3, 340, 50 Hz15 KWRated operational power at AC-3, 440 V, 50 Hz15 KWRated operational power at AC-3, 440 V, 50 Hz20 kWRated operational power at AC-4, 202, 220 V, 50 Hz15 KWRated operational power at AC-4, 415 V, 50 Hz4 KWRated operational power at AC-4, 415 V, 50 Hz4 KWRated operational power at AC-4, 410 V, 50 Hz5 KWRated operational power at AC-4, 410 V, 50 Hz5 KWRated operational power at AC-4, 410 V, 50 Hz6 KWRated operational power at AC-4, 400 V, 50	Rated breaking capacity at 660/690 V	180 A
Rated operational current (le) at AC-3, 380 V, 400 V, 415 VImage: provide the state operational current (le) at AC-3, 500 VRated operational current (le) at AC-3, 500 VImage: provide the state operational current (le) at AC-3, 500 VRated operational current (le) at AC-4, 200 V, 200 V, 200 VImage: provide the state operational current (le) at AC-4, 400 VRated operational current (le) at AC-4, 400 VImage: provide the state operational current (le) at AC-4, 500 VRated operational current (le) at AC-4, 500 VImage: provide the state operational current (le) at AC-4, 500 VRated operational current (le) at AC-4, 500 VImage: provide the state operational current (le) at DC-1, 50 VRated operational current (le) at DC-1, 10 VImage: provide the state operational current (le) at DC-1, 220 VRated operational power at AC-3, 240 V, 50 HzImage: provide the state operational power at AC-3, 240 V, 50 HzRated operational power at AC-3, 300400 V, 50 HzImage: provide the state operational power at AC-3, 240 V, 50 HzRated operational power at AC-3, 240 V, 50 HzImage: provide the state operational power at AC-3, 240 V, 50 HzRated operational power at AC-4, 240 V, 50 HzImage: provide the state operational power at AC-4, 240 V, 50 HzRated operational power at AC-4, 240 V, 50 HzImage: provide the state operational power at AC-4, 240 V, 50 HzRated operational power at AC-4, 240 V, 50 HzImage: provide the state operational power at AC-4, 440 V, 50 HzRated operational power at AC-4, 240 V, 50 HzImage: provide the state operational power at AC-4, 440 V, 50 HzRated operational power at AC-4, 440 V, 50 HzImage: provide the state operational power	Rated operational current (Ie) at AC-1, 380 V, 400 V, 415 V	45 A
Rated operational current (le) at AC-3,400 VImage: Provide the state operational current (le) at AC-3,500 V,500 VImage: Provide the state operational current (le) at AC-4,200 V,230 V,240 VImage: Provide the state operational current (le) at AC-4,200 V,230 V,240 VRated operational current (le) at AC-4,200 V,230 V,240 VImage: Provide the state operational current (le) at AC-4,400 VImage: Provide the state operational current (le) at AC-4,500 VRated operational current (le) at AC-4,500 VImage: Provide the state operational current (le) at AC-4,500 VImage: Provide the state operational current (le) at AC-4,500 VRated operational current (le) at AC-4,500 VImage: Provide the state operational current (le) at AC-4,500 VImage: Provide the state operational current (le) at AC-4,500 VRated operational current (le) at DC-1,100 VImage: Provide the state operational current (le) at DC-1,220 VImage: Provide the state operational current (le) at DC-1,220 VRated operational current (le) at DC-1,220 VImage: Provide the state operational current (le) at DC-1,220 VImage: Provide the state operational power at AC-3,240 V,50 HzRated operational power at AC-3,240 V,50 HzImage: Provide the state operational power at AC-3,240 V,50 HzImage: Provide the state operational power at AC-3,240 V,50 HzRated operational power at AC-4,220,250 V,50 HzImage: Provide the state operational power at AC-4,240 V,50 HzImage: Provide the state operational power at AC-4,240 V,50 HzRated operational power at AC-4,240 V,50 HzImage: Provide the state operational power at AC-4,240 V,50 HzImage: Provide the state operational power at AC-4,240 V,50 HzRated operational power at AC-4,240 V,50 HzImage: Provide t	Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	32 A
Reted operational current (le) at AC-3, 500 VImage: Control of	Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	32 A
Rated operational current (le) at AC-3, 260 V, 260 V18Rated operational current (le) at AC-4, 220 V, 230 V, 240 V15 ARated operational current (le) at AC-4, 400 V15 ARated operational current (le) at AC-4, 500 V15 ARated operational current (le) at AC-4, 500 V15 ARated operational current (le) at DC-1, 50 V40 ARated operational current (le) at DC-1, 110 V40 ARated operational current (le) at DC-1, 220 V40 ARated operational current (le) at DC-1, 220 V40 ARated operational current (le) at DC-1, 50 V50 VRated operational power at AC-3, 240 V, 50 Hz50 VRated operational power at AC-3, 380/400 V, 50 Hz50 VRated operational power at AC-3, 340 V, 50 Hz51 SkWRated operational power at AC-3, 440 V, 50 Hz51 SkWRated operational power at AC-3, 400 V, 50 Hz51 SkWRated operational power at AC-3, 400 V, 50 Hz51 SkWRated operational power at AC-3, 400 V, 50 Hz51 SkWRated operational power at AC-3, 400 V, 50 Hz51 SkWRated operational power at AC-3, 400 V, 50 Hz51 SkWRated operational power at AC-3, 400 V, 50 Hz51 SkWRated operational power at AC-3, 400 V, 50 Hz51 SkWRated operational power at AC-3, 400 V, 50 Hz51 SkWRated operational power at AC-3, 400 V, 50 Hz51 SkWRated operational power at AC-3, 400 V, 50 Hz51 SkWRated operational power at AC-4, 500 V, 50 Hz51 SkWRated operational power at AC-4, 500 V, 50 Hz51 SkWRated	Rated operational current (Ie) at AC-3, 440 V	32 A
Rated operational current (le) at AC-4, 220 V, 230 V, 240 VISARated operational current (le) at AC-4, 440 VISARated operational current (le) at AC-4, 660 V, 690 VISARated operational current (le) at DC-1, 60 VISARated operational current (le) at DC-1, 10 VISARated operational current (le) at DC-1, 220 VISARated operational current (le) at DC-1, 220 VISARated operational power at AC-3, 240 V, 50 HzISARated operational power at AC-3, 250 V, 50 HzISARated operational power at AC-3, 240 V, 50 HzISARated operational power at AC-4, 240 V, 50 HzISARated operational power at AC-4, 415 V, 50 HzISA <td>Rated operational current (Ie) at AC-3, 500 V</td> <td>32 A</td>	Rated operational current (Ie) at AC-3, 500 V	32 A
Rated operational current (le) at AC-4, 440 V15 ARated operational current (le) at AC-4, 500 V15 ARated operational current (le) at AC-4, 500 V12 ARated operational current (le) at AC-4, 500 V40 ARated operational current (le) at DC-1, 10 V40 ARated operational current (le) at DC-1, 220 V690 VRated operational current (le) at DC-1, 220 V690 VRated operational current (le) at DC-1, 220 V690 VRated operational power at AC-3, 240 V, 50 Hz11 kWRated operational power at AC-3, 380,400 V, 50 Hz11 kWRated operational power at AC-3, 410 V, 50 Hz12 kWRated operational power at AC-3, 500 V, 50 Hz23 kWRated operational power at AC-4, 410 V, 50 Hz17 kWRated operational power at AC-4, 415 V, 50 Hz5 kWRated operational power at AC-4, 415 V, 50 Hz5 kWRated operational power at AC-4, 415 V, 50 Hz5 kWRated operational power at AC-4, 415 V, 50 Hz5 kWRated operational power at AC-4, 415 V, 50 Hz5 kWRated operational power at AC-4, 415 V, 50 Hz6 kWRated operational power at AC-4, 410 V, 50 Hz8 kWRated operational power at AC-4, 400 V, 50 Hz8 kWRated operational power at AC-4, 400 V, 50 Hz8 kWRated operational power at AC-4, 400 V, 50 Hz8 kWRated operational power at AC-4, 400 V, 50 Hz8 kWRated operational power at AC-4, 500 V, 50 Hz8 kWRated operational power at AC-4, 500 V, 50 Hz8 kWRated operational power at AC-4, 400 V, 50	Rated operational current (Ie) at AC-3, 660 V, 690 V	18 A
Rated operational current (le) at AC-4, 500 V15 ARated operational current (le) at AC-4, 660 V, 690 V12 ARated operational current (le) at DC-1, 60 V40 ARated operational current (le) at DC-1, 110 V40 ARated operational current (le) at DC-1, 120 V690 VRated operational current (le) at DC-1, 220 V690 VRated operational current (le) at BC-1, 220 V690 VRated operational current (le) at DC-1, 220 V11 kWRated operational power at AC-3, 240 V, 50 Hz11 kWRated operational power at AC-3, 240 V, 50 Hz11 kWRated operational power at AC-3, 340 V, 50 Hz15 kWRated operational power at AC-3, 340 V, 50 Hz20 kWRated operational power at AC-3, 500 V, 50 Hz23 kWRated operational power at AC-3, 500 V, 50 Hz17 kWRated operational power at AC-3, 200 V, 50 Hz46 ARated operational power at AC-3, 200 V, 50 Hz20 kWRated operational power at AC-3, 200 V, 50 Hz20 kWRated operational power at AC-3, 200 V, 50 Hz46 ARated operational power at AC-3, 200 V, 50 Hz46 ARated operational power at AC-4, 202 y X0 V, 50 Hz46 ARated operational power at AC-4, 202 y X0 V, 50 Hz46 ARated operational power at AC-4, 415 V, 50 Hz55 kWRated operational power at AC-4, 416 V, 50 Hz55 kWRated operational power at AC-4, 416 V, 50 Hz8 kWRated operational power at AC-4, 400 V, 50 Hz8 kWRated operational power at AC-4, 500 V, 50 Hz9 kW	Rated operational current (Ie) at AC-4, 220 V, 230 V, 240 V	15 A
Rated operational current (le) at AC-4, 660 V, 690 VI2ARated operational current (le) at DC-1, 60 V40 ARated operational current (le) at DC-1, 10 V40 ARated operational current (le) at DC-1, 220 V40 ARated operational current (le) at DC-1, 220 V690 VRated operational current (le) at DC-1, 220 V848 ARated operational power at AC-3, 240 V, 50 Hz11 kWRated operational power at AC-3, 240 V, 50 Hz15 kWRated operational power at AC-3, 380/400 V, 50 Hz19 kWRated operational power at AC-3, 410 V, 50 Hz20 kWRated operational power at AC-3, 690 V, 50 Hz17 kWRated operational power at AC-3, 200 V, 50 Hz21 kWRated operational power at AC-3, 690 V, 50 Hz16 kWRated operational power at AC-3, 200 V, 50 Hz17 kWRated operational power at AC-3, 200 V, 50 Hz20 kWRated operational power at AC-3, 200 V, 50 Hz20 kWRated operational power at AC-3, 200 V, 50 Hz20 kWRated operational power at AC-4, 202/30 V, 50 Hz4 kWRated operational power at AC-4, 200 V, 50 Hz5 kWRated operational power at AC-4, 40 V, 50 Hz8 kWRated operational power at AC-4, 40 V, 50 Hz8 kWRated operational power at AC-4, 40 V, 50 Hz8 kWRated operational power at AC-4, 40 V, 50 Hz9 kW	Rated operational current (Ie) at AC-4, 440 V	15 A
Rated operational current (le) at DC-1, 60 V40 ARated operational current (le) at DC-1, 10 V40 ARated operational current (le) at DC-1, 220 V40 ARated insulation voltage (Ui)500 VRated insulation voltage (Ui)500 VRated operational power at AC-3, 240 V, 50 Hz384 ARated operational power at AC-3, 380/400 V, 50 Hz11 kWRated operational power at AC-3, 380/400 V, 50 Hz15 kWRated operational power at AC-3, 380/400 V, 50 Hz20 kWRated operational power at AC-3, 415 V, 50 Hz14 KWRated operational power at AC-3, 500 V, 50 Hz14 KWRated operational power at AC-4, 240 V, 50 Hz14 KWRated operational power at AC-4, 240 V, 50 Hz14 KWRated operational power at AC-4, 440 V, 50 Hz14 KWRated operational power at AC-4, 440 V, 50 Hz14 KWRated operational power at AC-4, 440 V, 50 Hz15 KWRated operational power at AC-4, 440 V, 50 Hz16 KWRated operational power at AC-4, 440 V, 50 Hz16 KWRated operational power at AC-4, 440 V, 50 Hz16 KWRated operational power at AC-4, 440 V, 50 Hz8 KWRated operational power at AC-4, 440 V, 50 Hz9 KW	Rated operational current (Ie) at AC-4, 500 V	15 A
Rated operational current (le) at DC-1, 10 V40 ARated operational current (le) at DC-1, 220 V40 ARated insulation voltage (Ui)690 VRated making capacity up to 690 V (cos phi to IEC/EN 60947)384 ARated operational power at AC-3, 240 V, 50 Hz11 kWRated operational power at AC-3, 380/400 V, 50 Hz15 kWRated operational power at AC-3, 415 V, 50 Hz19 kWRated operational power at AC-3, 415 V, 50 Hz20 kWRated operational power at AC-3, 500 V, 50 Hz23 kWRated operational power at AC-4, 220/230 V, 50 Hz17 kWRated operational power at AC-4, 220/230 V, 50 Hz56 KWRated operational power at AC-4, 220/230 V, 50 Hz56 KWRated operational power at AC-4, 220/230 V, 50 Hz56 KWRated operational power at AC-4, 220/230 V, 50 Hz56 KWRated operational power at AC-4, 240 V, 50 Hz57 kWRated operational power at AC-4, 240 V, 50 Hz58 kWRated operational power at AC-4, 440 V, 50 Hz58 kWRated operational power at AC-4, 440 V, 50 Hz58 kWRated operational power at AC-4, 440 V, 50 Hz58 kWRated operational power at AC-4, 440 V, 50 Hz58 kWRated operational power at AC-4, 440 V, 50 Hz58 kWRated operational power at AC-4, 500 V, 50 Hz58 kWRated operational power at AC-4, 440 V, 50 Hz58 kWRated operational power at AC-4, 440 V, 50 Hz58 kWRated operational power at AC-4, 450 V, 50 Hz58 kWRated operational power at AC-4, 450 V, 50 Hz58 kWRated ope	Rated operational current (Ie) at AC-4, 660 V, 690 V	12 A
Rated operational current (le) at DC-1, 220 V40 ARated insulation voltage (Ui)690 VRated making capacity up to 690 V (cos phi to IEC/EN 60947)384 ARated operational power at AC-3, 240 V, 50 Hz11 kWRated operational power at AC-3, 380/400 V, 50 Hz15 kWRated operational power at AC-3, 415 V, 50 Hz20 kWRated operational power at AC-3, 500 V, 50 Hz23 kWRated operational power at AC-3, 500 V, 50 Hz17 kWRated operational power at AC-3, 200 V, 50 Hz24 kWRated operational power at AC-3, 200 V, 50 Hz56 kWRated operational power at AC-3, 500 V, 50 Hz16 kWRated operational power at AC-4, 220/230 V, 50 Hz17 kWRated operational power at AC-4, 220/230 V, 50 Hz56 kWRated operational power at AC-4, 415 V, 50 Hz56 kWRated operational power at AC-4, 415 V, 50 Hz56 kWRated operational power at AC-4, 415 V, 50 Hz56 kWRated operational power at AC-4, 410 V, 50 Hz66 kWRated operational power at AC-4, 410 V, 50 Hz66 kWRated operational power at AC-4, 410 V, 50 Hz75 kWRated operational power at AC-4, 400 V, 50 Hz8 kWRated operational power at AC-4, 500 V, 50 Hz9 kW	Rated operational current (Ie) at DC-1, 60 V	40 A
Rated insulation voltage (Ui)690 VRated making capacity up to 690 V (cos phi to IEC/EN 60947)690 VRated operational power at AC-3, 240 V, 50 Hz384 ARated operational power at AC-3, 380/400 V, 50 Hz11 kWRated operational power at AC-3, 380/400 V, 50 Hz15 kWRated operational power at AC-3, 415 V, 50 Hz19 kWRated operational power at AC-3, 400 V, 50 Hz20 kWRated operational power at AC-3, 400 V, 50 Hz20 kWRated operational power at AC-3, 500 V, 50 Hz20 kWRated operational power at AC-3, 690 V, 50 Hz21 kWRated operational power at AC-4, 200 V, 50 Hz4 kWRated operational power at AC-4, 240 V, 50 Hz55 kWRated operational power at AC-4, 415 V, 50 Hz56 kWRated operational power at AC-4, 415 V, 50 Hz56 kWRated operational power at AC-4, 410 V, 50 Hz56 kWRated operational power at AC-4, 415 V, 50 Hz56 kWRated operational power at AC-4, 415 V, 50 Hz56 kWRated operational power at AC-4, 415 V, 50 Hz56 kWRated operational power at AC-4, 415 V, 50 Hz66 kWRated operational power at AC-4, 415 V, 50 Hz66 kWRated operational power at AC-4, 415 V, 50 Hz66 kWRated operational power at AC-4, 500 V, 50 Hz75 kW	Rated operational current (Ie) at DC-1, 110 V	40 A
Rated making capacity up to 690 V (cos phi to IEC/EN 60947)384 ARated operational power at AC-3, 240 V, 50 Hz11 kWRated operational power at AC-3, 380/400 V, 50 Hz15 kWRated operational power at AC-3, 380/400 V, 50 Hz19 kWRated operational power at AC-3, 415 V, 50 Hz20 kWRated operational power at AC-3, 500 V, 50 Hz20 kWRated operational power at AC-3, 500 V, 50 Hz17 kWRated operational power at AC-3, 500 V, 50 Hz4 kWRated operational power at AC-4, 220/230 V, 50 Hz50 KWRated operational power at AC-4, 415 V, 50 Hz50 KWRated operational power at AC-4, 415 V, 50 Hz50 KWRated operational power at AC-4, 415 V, 50 Hz50 KWRated operational power at AC-4, 415 V, 50 Hz50 KWRated operational power at AC-4, 415 V, 50 Hz50 KWRated operational power at AC-4, 415 V, 50 Hz50 KWRated operational power at AC-4, 415 V, 50 Hz60 KWRated operational power at AC-4, 415 V, 50 Hz50 KWRated operational power at AC-4, 415 V, 50 Hz8 kWRated operational power at AC-4, 440 V, 50 Hz9 kW	Rated operational current (Ie) at DC-1, 220 V	40 A
Rated operational power at AC-3, 240 V, 50 Hz11 kWRated operational power at AC-3, 380/400 V, 50 Hz15 kWRated operational power at AC-3, 415 V, 50 Hz19 kWRated operational power at AC-3, 440 V, 50 Hz20 kWRated operational power at AC-3, 500 V, 50 Hz23 kWRated operational power at AC-3, 690 V, 50 Hz17 kWRated operational power at AC-4, 220/230 V, 50 Hz4 kWRated operational power at AC-4, 220/230 V, 50 Hz50 KWRated operational power at AC-4, 240 V, 50 Hz50 KWRated operational power at AC-4, 240 V, 50 Hz50 KWRated operational power at AC-4, 415 V, 50 Hz60 KWRated operational power at AC-4, 410 V, 50 Hz8 kWRated operational power at AC-4, 500 V, 50 Hz9 kW	Rated insulation voltage (Ui)	690 V
Rated operational power at AC-3, 380/400 V, 50 Hz15 kWRated operational power at AC-3, 415 V, 50 Hz19 kWRated operational power at AC-3, 440 V, 50 Hz20 kWRated operational power at AC-3, 500 V, 50 Hz23 kWRated operational power at AC-3, 690 V, 50 Hz17 kWRated operational power at AC-4, 220/230 V, 50 Hz4 kWRated operational power at AC-4, 240 V, 50 Hz56 KWRated operational power at AC-4, 240 V, 50 Hz56 KWRated operational power at AC-4, 415 V, 50 Hz56 KWRated operational power at AC-4, 440 V, 50 Hz56 KWRated operational power at AC-4, 440 V, 50 Hz56 KWRated operational power at AC-4, 415 V, 50 Hz56 KWRated operational power at AC-4, 415 V, 50 Hz56 KWRated operational power at AC-4, 415 V, 50 Hz56 KWRated operational power at AC-4, 500 V, 50 Hz56 KWRated operational power at AC-4, 415 V, 50 Hz56 KWRated operational power at AC-4, 500 V, 50 Hz56 KWStated operational power at AC-4, 500 V, 50 Hz56 KWStated operational power at AC-4, 500 V, 50 Hz56 KWStated operational power at AC-4, 500 V, 50 Hz56 KWStated operational power at AC-4, 500 V, 50 Hz56 KWStated operational power at AC-4, 500 V, 50 Hz56 KWStated operational power at AC-4, 500 V, 50 Hz56 KWStated operational power at AC-4, 500 V, 50 Hz56 KWStated operational power at AC-4, 500 V, 50 Hz56 KWStated operational power at AC-4, 500 V, 50 Hz56 KWStated opera	Rated making capacity up to 690 V (cos phi to IEC/EN 60947)	384 A
Rated operational power at AC-3, 415 V, 50 Hz19 kWRated operational power at AC-3, 400 V, 50 Hz20 kWRated operational power at AC-3, 500 V, 50 Hz23 kWRated operational power at AC-3, 690 V, 50 Hz17 kWRated operational power at AC-4, 220/230 V, 50 Hz4 kWRated operational power at AC-4, 240 V, 50 Hz50 KRated operational power at AC-4, 240 V, 50 Hz50 KRated operational power at AC-4, 240 V, 50 Hz50 KRated operational power at AC-4, 240 V, 50 Hz50 KRated operational power at AC-4, 240 V, 50 Hz50 KRated operational power at AC-4, 415 V, 50 Hz84 KWRated operational power at AC-4, 440 V, 50 Hz64 KWRated operational power at AC-4, 500 V, 50 Hz64 KWRated operational power at AC-4, 500 V, 50 Hz64 KWRated operational power at AC-4, 500 V, 50 Hz64 KWRated operational power at AC-4, 500 V, 50 Hz64 KWRated operational power at AC-4, 500 V, 50 Hz64 KWRated operational power at AC-4, 500 V, 50 Hz64 KWRated operational power at AC-4, 500 V, 50 Hz64 KWRated operational power at AC-4, 500 V, 50 Hz64 KWRated operational power at AC-4, 500 V, 50 Hz64 KW	Rated operational power at AC-3, 240 V, 50 Hz	11 kW
Rated operational power at AC-3, 440 V, 50 Hz20 kWRated operational power at AC-3, 500 V, 50 Hz23 kWRated operational power at AC-3, 690 V, 50 Hz7 kWRated operational power at AC-4, 220/230 V, 50 Hz4 kWRated operational power at AC-4, 220/230 V, 50 Hz5 kWRated operational power at AC-4, 415 V, 50 Hz6 comRated operational power at AC-4, 415 V, 50 Hz6 comRated operational power at AC-4, 415 V, 50 Hz6 comRated operational power at AC-4, 415 V, 50 Hz8 kWRated operational power at AC-4, 400 V, 50 Hz6 comRated operational power at AC-4, 415 V, 50 Hz9 kW	Rated operational power at AC-3, 380/400 V, 50 Hz	15 kW
Rated operational power at AC-3, 500 V, 50 Hz23 kWRated operational power at AC-3, 690 V, 50 Hz17 kWRated operational power at AC-4, 220/230 V, 50 Hz4 kWRated operational power at AC-4, 240 V, 50 Hz50 KRated operational power at AC-4, 240 V, 50 Hz50 KRated operational power at AC-4, 240 V, 50 Hz50 KRated operational power at AC-4, 415 V, 50 Hz50 KRated operational power at AC-4, 415 V, 50 Hz60 KRated operational power at AC-4, 410 V, 50 Hz8 kWRated operational power at AC-4, 500 V, 50 Hz60 K	Rated operational power at AC-3, 415 V, 50 Hz	19 kW
Rated operational power at AC-3, 690 V, 50 Hz17 kWRated operational power at AC-4, 220/230 V, 50 Hz4 kWRated operational power at AC-4, 240 V, 50 Hz4.5 kWRated operational power at AC-4, 415 V, 50 Hz7.5 kWRated operational power at AC-4, 440 V, 50 Hz8 kWRated operational power at AC-4, 500 V, 50 Hz9 kW	Rated operational power at AC-3, 440 V, 50 Hz	20 kW
Rated operational power at AC-4, 220/230 V, 50 Hz4 kWRated operational power at AC-4, 240 V, 50 Hz4 kWRated operational power at AC-4, 240 V, 50 Hz50 KWRated operational power at AC-4, 415 V, 50 Hz50 KWRated operational power at AC-4, 440 V, 50 Hz8 kWRated operational power at AC-4, 500 V, 50 Hz9 kW	Rated operational power at AC-3, 500 V, 50 Hz	23 kW
Rated operational power at AC-4, 240 V, 50 Hz4.5 kWRated operational power at AC-4, 415 V, 50 Hz7.5 kWRated operational power at AC-4, 440 V, 50 Hz8 kWRated operational power at AC-4, 500 V, 50 Hz9 kW	Rated operational power at AC-3, 690 V, 50 Hz	17 kW
Rated operational power at AC-4, 415 V, 50 Hz7.5 kWRated operational power at AC-4, 440 V, 50 Hz8 kWRated operational power at AC-4, 500 V, 50 Hz9 kW	Rated operational power at AC-4, 220/230 V, 50 Hz	4 kW
Rated operational power at AC-4, 440 V, 50 Hz 8 kW Rated operational power at AC-4, 500 V, 50 Hz 9 kW	Rated operational power at AC-4, 240 V, 50 Hz	4.5 kW
Rated operational power at AC-4, 500 V, 50 Hz 9 kW	Rated operational power at AC-4, 415 V, 50 Hz	7.5 kW
	Rated operational power at AC-4, 440 V, 50 Hz	8 kW
Rated operational power at AC-4, 660/690 V, 50 Hz 10 kW	Rated operational power at AC-4, 500 V, 50 Hz	9 kW
	Rated operational power at AC-4, 660/690 V, 50 Hz	10 kW

Detection static state in the set (11-) of AO array	200 V
Rated operational voltage (Ue) at AC - max	690 V
Short-circuit rating	
Short-circuit protection rating (type 1 coordination) at 400 V	125 A gG/gL
Short-circuit protection rating (type 1 coordination) at 690 V	63 A gG/gL
Short-circuit protection rating (type 2 coordination) at 400 V	63 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)	90 A
Conventional thermal current ith (3-pole, enclosed)	36 A
Conventional thermal current ith at 55°C (3-pole, open)	42 A
Conventional thermal current ith at 60°C (3-pole, open)	40 A
Conventional thermal current ith of main contacts (1-pole, open)	100 A
Magnet system	
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, 60 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	415 V
Rated control supply voltage (Us) at AC, 50 Hz - max	415 V
Rated control supply voltage (Us) at AC, 60 Hz - min	480 V
Rated control supply voltage (Us) at AC, 60 Hz - max	480 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
Communication	
Connection to SmartWire-DT	No
Contacts	
Number of contacts (normally open contacts)	1
Number of auxiliary contacts (normally closed contacts)	
Number of auxiliary contacts (normally open contacts)	1
Safety	
Safe isolation	440 V AC, Between coil and contacts, According to EN 61140 440 V AC, Between the contacts, According to EN 61140
Design verification	
Equipment heat dissipation, current-dependent Pvid	6.6 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	2.2 W
Rated operational current for specified heat dissipation (In)	32 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.
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 technol	logy / Contactor	(LV) / Power contactor, AC switching (ecl@ss13-27-37-10-03 [AAB718020])
Rated control supply voltage AC 50 Hz	V	415 - 415
Rated control supply voltage AC 60 Hz	V	480 - 480
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	24 - 690
Operating voltage AC 60 Hz	V	24 - 690
Rated operation current le at AC-1, 400 V	А	45
Rated operation current le at AC-3, 400 V	А	32
Rated operation power at AC-3, 400 V	kW	15
Rated operation current le at AC-4, 400 V	А	15
Rated operation power at AC-4, 400 V	kW	7
Rated operation power NEMA	kW	14.9
Number of auxiliary contacts as normally open contact		1
Number of auxiliary contacts as normally closed contact		0
Modular version		No
Width	mm	45
Height	mm	85
Depth	mm	97