## DATASHEET - DILM50(110V50/60HZ)



Contactor, 3 pole, 380 V 400 V 22 kW, 110 V 50/60 Hz, AC operation, Screw terminals



Part no.

DILM50(110V50/60HZ) 277836

General specifications	
Product name	Eaton Moeller® series DILM contactor
Part no.	DILM50(110V50/60HZ)
EAN	4015082778361
Product Length/Depth	132.1 millimetre
Product height	115 millimetre
Product width	55 millimetre
Product weight	0.872 kilogram
Compliances	CE Marked
Certifications	UL 508 EN 60947-4-1 IEC 60947-4-1 CSA Std. C22.2 No. 14-05 VDE CSA CSA-C22.2 No. 60947-4-1-14 UL 60947-4-1 CSA Class No.: 2411-03, 3211-04 VDE 0660 IEC/EN 60947 CE UL IEC/EN 60947-4-1 UL Category Control No.: NLDX UL File No.: E29096 CSA File No.: 012528
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	FS3
Lifespan, mechanical	7,000,000 Operations (Coil 50/60 Hz) 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	1.9 mΩ
Suitable for	Also motors with efficiency class IE3
Utilization category	AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-3: Normal AC induction motors: starting, switch off during running AC-4: Normal AC induction motors: starting, plugging, reversing, inching
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 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 when tabletop-mounted, Half-sinusoidal shock 10 ms 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms

10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms

	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	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 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) mm <sup>2</sup> , Control circuit cables 1 x (0.75 - 35) mm <sup>2</sup> , Main cables 2 x (0.75 - 25) mm <sup>2</sup> , Main cables 1 x (0.75 - 2.5) mm <sup>2</sup> , Control circuit cables
Terminal capacity (solid)	2 x (0.75 - 16) mm², Main cables 1 x (0.75 - 16) mm², Main cables 1 x (0.75 - 4) mm², Control circuit cables 2 x (0.75 - 2.5) mm², Control circuit 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	3.3 Nm, Screw terminals, Main cables 1.2 Nm, Screw terminals, Control circuit cables
Electrical rating	
Rated breaking capacity at 220/230 V	500 A
Rated breaking capacity at 380/400 V	500 A
Rated breaking capacity at 500 V	500 A
Rated breaking capacity at 660/690 V	320 A
Rated operational current (Ie) at AC-1, 380 V, 400 V, 415 V	80 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	50 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	50 A
Rated operational current (Ie) at AC-3, 440 V	50 A
Rated operational current (Ie) at AC-3, 500 V	50 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	32 A
Rated operational current (Ie) at AC-4, 220 V, 230 V, 240 V	21 A
Rated operational current (Ie) at AC-4, 440 V	21 A
Rated operational current (Ie) at AC-4, 500 V	21 A
Rated operational current (Ie) at AC-4, 660 V, 690 V	17 A
Rated operational current (Ie) at DC-1, 60 V	60 A
Rated operational current (Ie) at DC-1, 110 V	50 A
Rated operational current (Ie) at DC-1, 220 V	45 A
Rated insulation voltage (Ui)	690 V
Rated making capacity up to 690 V (cos phi to IEC/EN 60947)	700 A
Rated operational power at AC-3, 240 V, 50 Hz	17 kW
Rated operational power at AC-3, 380/400 V, 50 Hz	22 kW

Rated operational power at AC-3, 415 V, 50 Hz	30 kW
Rated operational power at AC-3, 440 V, 50 Hz	32 kW
Rated operational power at AC-3, 500 V, 50 Hz	36 kW
Rated operational power at AC-3, 690 V, 50 Hz	30 kW
Rated operational power at AC-4, 220/230 V, 50 Hz	6 kW
Rated operational power at AC-4, 240 V, 50 Hz	6.5 kW
Rated operational power at AC-4, 415 V, 50 Hz	11 kW
Rated operational power at AC-4, 440 V, 50 Hz	12 kW
Rated operational power at AC-4, 500 V, 50 Hz	13 kW
Rated operational power at AC-4, 660/690 V, 50 Hz	14 kW
Rated operational voltage (Ue) at AC - max	690 V
Short-circuit rating	
Short-circuit current rating (basic rating)	10 kA, SCCR (UL/CSA) 250 A, max. CB, SCCR (UL/CSA) 250 A, max. Fuse, SCCR (UL/CSA)
Short-circuit current rating (high fault at 480 V)	100 A, max. CB, SCCR (UL/CSA) 65 kA, CB, SCCR (UL/CSA) 30/100 kA, Fuse, SCCR (UL/CSA) 250/150 A, Class J, max. Fuse, 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	160 A gG/gL
Short-circuit protection rating (type 1 coordination) at 690 V	80 A gG/gL
Short-circuit protection rating (type 2 coordination) at 400 V	80 A gG/gL
Short-circuit protection rating (type 2 coordination) at 690 V	63 A gG/gL
Conventional thermal current Ith	
Conventional thermal current ith (1-pole, enclosed)	145 A
Conventional thermal current ith (3-pole, enclosed)	58 A
Conventional thermal current ith at 55°C (3-pole, open)	68 A
Conventional thermal current ith at 60°C (3-pole, open)	65 A
Conventional thermal current ith of main contacts (1-pole, open)	162 A
Switching capacity	
Switching capacity (main contacts, general use)	80 A, Maximum motor rating (UL/CSA)
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	154 VA, Dual-frequency coil in a cold state and 1.0 x Us 168 VA, Dual-frequency coil in a cold state and 1.0 x Us
Power consumption, pick-up, 60 Hz	154 VA, Dual-frequency coil in a cold state and 1.0 x Us 168 VA, Dual-frequency coil in a cold state and 1.0 x Us
Power consumption, sealing, 50 Hz	4.1 W, Dual-frequency coil in a cold state and 1.0 x Us
Power consumption, sealing, 60 Hz	4.1 W, Dual-frequency coil in a cold state and 1.0 x Us 14 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 22 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	110 V
Rated control supply voltage (Us) at AC, 50 Hz - max	110 V
Rated control supply voltage (Us) at AC, 60 Hz - min	110 V
Rated control supply voltage (Us) at AC, 60 Hz - max	110 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	12 ms
Switching time (AC operated, make contacts, closing delay) - max	18 ms
Switching time (AC operated, make contacts, opening delay) - min	8 ms
Switching time (AC operated, make contacts, opening delay) - max	13 ms
Motor rating	

Adapced numer power 2100001 (01 b) 2, phase     15 99       Adapced numer power 200200 (01 b) 2, phase     11 99       Adapced numer power 200200 (01 b) 2, phase     11 99       Adapced numer power 200200 (01 b) 2, phase     11 99       Adapced numer power 200200 (01 b) 2, phase     11 99       Adapced numer power 200200 (01 b) 2, phase     11 99       Constraint     11 90       Constraint     11 90       Constraint     11 90       Relevance (01 power 10, phase)     11 90       Social proper relings     11 900       Social proper relings     11 900 </th <th>Assigned motor power at 115/120 V, 60 Hz, 1-phase</th> <th>3 HP</th>	Assigned motor power at 115/120 V, 60 Hz, 1-phase	3 HP
Assigned more process at 252/2014 (d bb), 1 phase         9 149           Assigned more process at 252/2014 (d bb), 1 phase         3 47           Assigned more process at 255/2014 (bb), 2 phase         3 47           Contracts to Sam/Unp (DT)         100           Contracts to Sam/Unp (DT)         100           Contracts to Sam/Unp (DT)         0           Contracts to Sam/Unp (DT)         0           Safet at analogn contracts (contrally contracts (		
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Number of auxiliary contracts (portunity copins contracts)         P           Safe by         P           Safe isolation         P           Safe isolation         P           Special purpose rating of transition of discharge larges         P           Special purpose rating of elevator contral         P           Special purpose rating of transitionic air fuetting         P           P         P         P           Special purpose rating of transitionic air fuetting         P           Special purpose rating of transitionic air fuetting         P           P         P         P           Special purpose rating of transintor fuetting         P <tr< td=""><td>Contacts</td><td></td></tr<>	Contacts	
Safe valuation         Add V AC, Between the contexts, According to EN S1100           Special purpose ratings         94 (480/ 681; 207/ 681; 1phase)           Special purpose rating of balant discharge lamps         94 (480/ 681; 207/ 681; 1phase)           Special purpose rating of balant discharge lamps         94 (480/ 681; 207, 681; 1phase)           Special purpose rating of balant discharge lamps         94 (480/ 681; 207, 681; 1phase)           Special purpose rating of balant discharge lamps         94 (480/ 681; 201, 002, 581)           Special purpose rating of resistance air basing         94 (480/ 681; 201, 002, 581)           Special purpose rating of nesistance air basing         94 (480/ 681; 201, 002, 581)           Special purpose rating of nesistance air basing         94 (480/ 681; 201, 002, 581)           Special purpose rating of negating incention         94 (980/ 981; 201, 002, 581)           Special purpose rating of negating incention         94 (980/ 981; 201, 002, 581)           Special purpose rating of negating incention         94 (980/ 981; 201, 002, 581)           Special purpose rating of negating incention         94 (980/ 981; 201, 002, 581)           Equipment basing displant, current-displant displant, displan	Number of auxiliary contacts (normally closed contacts)	0
Sele isolation         400 VAC, Between coli and contacts, According to EN S1100           Special purpose rating of         79.4 MBW MBP species, According to EN S1100           Special purpose rating of balast olucitical discharge langes         79.4 MBW MBP species, TAY MBF / places           Special purpose rating of balast olucitical discharge langes         79.4 MBW MBP species, TAY MBF / places           Special purpose rating of elevator control         49.49 GOV VBH 2-59, UL/CSAN           Special purpose rating of resistance at heating         79.4 MBW MBP species, TAY MBF / places           Special purpose rating of resistance at heating         79.4 MBW MBP species, TAY MBF / places           Special purpose rating of resistance at heating         79.4 MBW MBP species, TAY VBH / places, UL/CSAN           Special purpose rating of tangeten incondescent langes         79.4 MBW MBP species, TAY VBH / places, UL/CSAN           Special purpose rating of tangeten incondescent langes         79.4 MBW MBP species, TAY VBH / places, UL/CSAN           Special purpose rating of tangeten incondescent langes         79.4 MBW MBP species, TAY VBH / places, UL/CSAN           Special purpose rating of tangeten incondescent langes         79.4 MBW MBP species, TAY VBH / places, UL/CSAN           Special purpose rating of tangeten incondescent langes         79.4 MBW MBP species, TAY VBH / places, UL/CSAN           Special purpose rating of tangeten incondescent langes         79.4 MBW MBP species, TAY VBH / places, UL/CSAN	Number of auxiliary contacts (normally open contacts)	0
Special purpose ratings         40 V AC, Berwsent the contacts, According to EM 81140           Special purpose rating of balanci discharge lamps         74 (4897 48112 bplass, 277 48112 tplass)           Special purpose rating of balanci discharge lamps         84 (4807 48112 bplass, 277 48112 tplass)           Special purpose rating of elevator control         84 (4807 48112 bplass, 277 48112 tplass)           Special purpose rating of elevator control         84 (4807 48112 bplass, 277 48112 tplass)           Special purpose rating of resistance air heating         73 A 480 Y 601 tz plass, 277 V 601 tz plass, 101 CSA)           Special purpose rating of resistance air heating         73 A 480 Y 601 tz plass, 277 V 601 tz plass, 101 CSA)           Special purpose rating of resistance air heating         74 A 480 Y 601 tz plass, 277 V 601 tz plass, 101 CSA)           Special purpose rating of trageten incondescent lamps         74 A 480 Y 601 tz plass, 277 V 601 tz plass, 101 CSA)           Bate dissipation, corrent dependent Pvid         93 W           Heat dissipation, corrent dependent Pvid         93 W           Bate dissipation, corrent dependent Pvid         93 W           1022 Diversion and transition prime and text of sequements.         93 W           1022 Diversion from statability of ancionare         94 W 94 Diva plin, ULCSA)           1022 Diversion from statability of ancionare         94 W 94 Divapplin, ULCSA)           1022 Diversion from statability of anc	Safety	
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Special purpose rating of elevator control       Image: Special purpose rating of elevator control       Image: Special purpose rating of resistance air heating         Special purpose rating of resistance air heating       Image: Special purpose rating of resistance air heating       Image: Special purpose rating of resistance air heating         Special purpose rating of resistance air heating       Image: Special purpose rating of transition elevator special purpose rating of transitin elevator special purpose rating of transitio	Special purpose ratings	
A has by 50 H3 (A)       A A (A) V 50 H3 (A)       Bit A (A) V 50 H3 (A)<	Special purpose rating of ballast electrical discharge lamps	
Special purpose rating of tungston incandescent lamps         79, 600 V 00 Hz Sphase, 347 V K0 Hz Tphase, (UUCSA)           Special purpose rating of tungston incandescent lamps         74, 4,800 V 60 Hz Sphase, 347 V K0 Hz Tphase, (UUCSA)           Design verification         99 W           Equipment heat dissipation, current-dependent Pvid         99 W           Heat dissipation, current-dependent Pvid         39 W           Rated operational current for specified heat dissipation (In)         50 A           102.2.1 Verification of thermal stability of enclosures         4.1 W           102.2.2 Verification of resistance of insulating materials to normal heat         Meets the product standard's requirements.           102.3.1 Verification of thermal stability of enclosures         Meets the product standard's requirements.           102.3.2 Verification of resistance of insulating materials to normal heat         Meets the product standard's requirements.           102.3.2 Verification of resistance of insulating materials to normal heat         Meets the product standard's requirements.           102.4.2 Meets due	Special purpose rating of elevator control	41 A, 600 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) 15 HP, 240 V 60 Hz 3-ph, (UL/CSA) 42 A, 240 V 60 Hz 3-ph, (UL/CSA) 30 HP, 480 V 60 Hz 3-ph, (UL/CSA)
Pesign verification       74 A 600 V 60 Hz 3phase. 347 V 60 Hz 1phase, (UL/CSA)         Equipment hast dissipation, current-dependent Pvid       9 W         Heat dissipation proje, current-dependent Pvid       33 W         Rated operational current for specified heat dissipation (In)       50 A         Static heat dissipation, non-current-dependent Pvid       4.1 W         10.2.2.3 Verification of thermal stability of enclosures       Meets the product standard's requirements.         10.2.3.1 Verification of resistance       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.         10.2.3.1 Verification of resistance of insulating materials to normal heat       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.         10.2.3.1 Verification of resistance of insulating materials to normal heat       Meets the product standard's requirements.         10.2.3.1 Verification of resistance of insulating materials to normal heat       Does not apply, since the entire switchger needs to be evaluated.         10.2.1 Narciptions       Does not apply, since the entire switchger needs to be evaluated.         10.2.2 Meeting divices and components       Does not apply, since the entire switchger needs to be evaluated.         10.3 Degree of protection of asatenblies </td <td>Special purpose rating of resistance air heating</td> <td></td>	Special purpose rating of resistance air heating	
Equipment heat dissipation, current-dependent Pvid         9 9 W           Heat dissipation capacity Pdiss         0W           Heat dissipation capacity Pdiss         0W           Rated operational current-dependent Pvid         50 A           Static heat dissipation, non-current-dependent Pvs         50 A           102.2 Corrosino resistance         Meets the product standard's requirements.           102.2.3 Verification of thermal stability of enclosures         Meets the product standard's requirements.           102.2.3 Verification of resistance of insulating materials to normal heat         Meets the product standard's requirements.           102.3.3 Resist, of insul, mat, to abnormal heat/fire by internal elect. effects         Meets the product standard's requirements.           102.2 Functionion         Does not apply, since the entire switchgar needs to be evaluated.           102.2 Functionion         Does not apply, since the entire switchgar needs to be evaluated.           102.2 Functionion against electric shock         Does not apply, since the entire switchgar needs to be evaluated.           10.3 Degree of protection of assemblies         Does not apply, since the entire switchgar needs to be evaluated.           10.4 Clearances and creopage distances         Meets the product standard's requirements.           10.5 Protection against electric shock         Does not apply, since the entire switchgar needs to be evaluated.           10.6 Incorporation of	Special purpose rating of tungsten incandescent lamps	
Heat dissipation capacity Pdiss       0W         Heat dissipation parpole, current-dependent Pvid       33W         Rated operational current for specified heat dissipation (In)       50 A         Static heat dissipation, non-current-dependent Pvs       4.1 W         102.23 Corrosion resistance       Meets the product standard's requirements.         102.23 Verification of thermal stability of enclosures       Meets the product standard's requirements.         102.23 Verification of resistance of insulating materials to normal heat       Meets the product standard's requirements.         102.24 Resistance to ultra-violet (UV) radiation       Meets the product standard's requirements.         102.25 Lifting       Does not apply, since the entire switchgear needs to be evaluated.         102.26 Mechanical impact       Meets the product standard's requirements.         102.27 Inscriptions       Does not apply, since the entire switchgear needs to be evaluated.         102.28 Mechanical impact       Meets the product standard's requirements.         103.29 Degree of protection diasemblies       Does not apply, since the entire switchgear needs to be evaluated.         104 Detrances and creepage distances       Meets the product standard's requirements.         105 Protection against electric shock       Does not apply, since the entire switchgear needs to be evaluated.         104 Detrances and creepage distances       Meets the product standard's requirements.	Design verification	
Heat dissipation pr pole, current-dependent Pvid       3.3 W         Rated operational current for specified heat dissipation (In)       50 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 thrmal 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.         10.2.3.4 Verification of thrmal stability of enclosures       Meets the product standard's requirements.         10.2.3.7 Verification of resistance of insulating materials to normal heat       Meets the product standard's requirements.         10.2.3.7 Inscriptions       Does not apply, since the entire switchgear needs to be evaluated.         10.2.5 Lifting       Does not apply, since the entire switchgear needs to be evaluated.         10.2.7 Inscriptions       Meets the product standard's requirements.         10.3 Orgene of protection of assemblies       Does not apply, since the entire switchgear needs to be evaluated.         10.3 Protection shock       Meets the product standard's requirements.         10.4 Clearances and creepage distances       Does not apply, since the entire switchgear needs to be evaluated.         10.5 Protection shock       Meets the product standard's requirements.         10.6 Incorporation	Equipment heat dissipation, current-dependent Pvid	9.9 W
Rated operational current for specified heat dissipation (In)       Static heat dissipation, non-current-dependent Pvs       Static heat dissipation, non-current-dependent Pvs       4.1 W         10.2.2 Corrosion resistance       Meets the product standard's requirements.       Meets the product standard's requirements.         10.2.3.1 Verification of thermal stability of enclosures       Meets the product standard's requirements.       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.         10.2.3.1 Verification of resistance to ultra-violet (UV) radiation       Meets the product standard's requirements.         10.2.4 Resistance to ultra-violet (UV) radiation       Does not apply, since the entire switchgear needs to be evaluated.         10.2.5 Infing       Does not apply, since the entire switchgear needs to be evaluated.         10.2.6 Meets the product standard's requirements.       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 against electric shock       Does not apply, since the entire switchgear needs to be evaluated.         10.5 Incorporation of switching devices and components       Does not apply, since the entire switchgear needs to be evaluated.         10.6 Incorporation of switching devices and components       Is the panel builder's responsibility.         10.	Heat dissipation capacity Pdiss	0 W
Static heat dissipation, non-current-dependent Pvs       41 W         10.2.2 Corrosion resistance       Meets the product standard's requirements.         10.2.3.1 Verification of themal 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 Richards       Meets the product standard's requirements.         10.2.6 Mechanical impact       Does not apply, since the entire switchgear needs to be evaluated.         10.3 Degree of protection of assemblies       Dees 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       Dees not apply, since the entire switchgear needs to be evaluated.         10.6 Incorporation of switching devices and components       Is the panel builder's responsibility.         10.8 Connections for external conductors       Is the panel builder's responsibility.         10.8.1 Connections for external conductors       Is the panel builder's responsibility.         10.8.2 Fower-frequency electric strength       Is the pane	Heat dissipation per pole, current-dependent Pvid	3.3 W
10.2.2 Corrosion resistance       Meets the product standard's requirements.         10.2.3.1 Verification of themal 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       Dees 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       Dees not apply, since the entire switchgear needs to be evaluated.         10.4 Clearances and creepage distances       Dees not apply, since the entire switchgear needs to be evaluated.         10.6 Incorporation of switching devices and components       Dees not apply, since the entire switchgear needs to be evaluated.         10.3 Instruction of switching devices and components       Is the panel builder's responsibility.         10.8 Connections of switching devices and components       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.         10.9.1 Th	Rated operational current for specified heat dissipation (In)	50 A
102.3.1 Verification of thermal stability of enclosures       Meets the product standard's requirements.         102.3.2 Verification of resistance of insulating materials to normal heat       Meets the product standard's requirements.         102.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects       Meets the product standard's requirements.         102.4 Resistance to ultra-violet (UV) radiation       Does not apply, since the entire switchgear needs to be evaluated.         102.5 Lifting       Does not apply, since the entire switchgear needs to be evaluated.         102.7 Inscriptions       Does not apply, since the entire switchgear needs to be evaluated.         103.2 Degree of protection of assemblies       Does not apply, since the entire switchgear needs to be evaluated.         104.Clearances and creepage distances       Does not apply, since the entire switchgear needs to be evaluated.         105.Protection against electric shock       Does not apply, since the entire switchgear needs to be evaluated.         105.Protection against electric shock       Does not apply, since the entire switchgear needs to be evaluated.         104.Internal electrical circuits and connections       Is the panel builder's responsibility.         105.Protection against electric shock       Does not apply, since the entire switchgear needs to be evaluated.         105.Protection against electric shock       Does not apply, since the entire switchgear needs to be evaluated.         105.Protection against electric shoc	Static heat dissipation, non-current-dependent Pvs	4.1 W
102.3.2 Verification of resistance of insulating materials to normal heat       Meets the product standard's requirements.         102.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects       Meets the product standard's requirements.         102.4 Resistance to ultra-violet (UV) radiation       Does not apply, since the entire switchgear needs to be evaluated.         102.5 Lifting       Does not apply, since the entire switchgear needs to be evaluated.         102.7 Inscriptions       Does not apply, since the entire switchgear needs to be evaluated.         103.0 Egree of protection of assemblies       Does not apply, since the entire switchgear needs to be evaluated.         104.Clearances and creepage distances       Meets the product standard's requirements.         105.Protection against electric shock       Does not apply, since the entire switchgear needs to be evaluated.         102.7 Internal electrical circuits and connections       Meets the product standard's requirements.         104.Clearances and concutors       Does not apply, since the entire switchgear needs to be evaluated.         105.Protection against electric shock       Does not apply, since the entire switchgear needs to be evaluated.         104.Protection against electric shock       Does not apply, since the entire switchgear needs to be evaluated.         105.Protection against electric shock       Does not apply, since the entire switchgear needs to be evaluated.         105.Protection against electric shock       Is th	10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal head/fire by internal elect. effects       Meets the product standard's requirements.         10.2.4 Resistance to ultra-violet (UV) radiation       Does not apply, since the entire switchgear needs to be evaluated.         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       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.         10.8.2 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.         10.11 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 requ	10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiationMeets the product standard's requirements.10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.10.2.7 InscriptionsMeets the product standard's requirements.10.3 Degree of protection of assembliesDoes not apply, since the entire switchgear needs to be evaluated.10.4 Clearances and creepage distancesMeets the product standard's requirements.10.5 Protection against electric shockDoes not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.8 Connections for external conductorsIs the panel builder's responsibility.10.9.2 Power-frequency electric strengthIs the panel builder's responsibility.10.9.3 Impulse withstand voltageIs the panel builder's responsibility.10.10 Temperature riseIs the panel builder's responsibility.10.11 Short-circuit ratingIs 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 functionThe device meets the requirements, provided the information in the instruction	10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.10.2.7 InscriptionsMeets the product standard's requirements.10.3 Degree of protection of assembliesDoes not apply, since the entire switchgear needs to be evaluated.10.4 Clearances and creepage distancesMeets the product standard's requirements.10.5 Protection against electric shockDoes not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.7 Internal electric circuits and connectionsIs the panel builder's responsibility.10.8 Connections for external conductorsIs the panel builder's responsibility.10.9.2 Power-frequency electric strengthIs the panel builder's responsibility.10.9.3 Impulse withstand voltageIs the panel builder's responsibility.10.10 Temperature riseIs the panel builder's responsibility.10.11 Short-circuit ratingIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.12 Electromagnetic compatibilityIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.13 Mechanical functionThe device meets the requirements, provide the information in the instruction	10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
10.2.6 Mechanical impactDees not apply, since the entire switchgear needs to be evaluated.10.2.7 InscriptionsMeets the product standard's requirements.10.3 Degree of protection of assembliesDoes not apply, since the entire switchgear needs to be evaluated.10.4 Clearances and creepage distancesMeets the product standard's requirements.10.5 Protection against electric shockDoes not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.7 Internal electrical circuits and connectionsIs the panel builder's responsibility.10.8 Connections for external conductorsIs the panel builder's responsibility.10.9.2 Power-frequency electric strengthIs the panel builder's responsibility.10.9.3 Impulse withstand voltageIs the panel builder's responsibility.10.10 Temperature riseThe panel builder's responsibility.10.11 Short-circuit ratingIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.12 Electromagnetic compatibilityIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.13 Mechanical functionThe device meets the requirements, provided the information in the instruction	10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.7 InscriptionsMeets the product standard's requirements.10.3 Degree of protection of assembliesDoes not apply, since the entire switchgear needs to be evaluated.10.4 Clearances and creepage distancesMeets the product standard's requirements.10.5 Protection against electric shockDoes not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.7 Internal electrical circuits and connectionsIs the panel builder's responsibility.10.8 Connections for external conductorsIs the panel builder's responsibility.10.9.2 Power-frequency electric strengthIs the panel builder's responsibility.10.9.3 Impulse withstand voltageIs the panel builder's responsibility.10.10 Temperature riseThe panel builder's responsibility.10.11 Short-circuit ratingIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.12 Electromagnetic compatibilityIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.13 Mechanical functionThe device meets the requirements, provided the information in the instruction	10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
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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       Is the panel builder is responsibility.         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       It evice meets the requirements, provided the information in the instruction	10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
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       Is the panel builder's responsibility.         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, provide the information in the instruction	10.7 Internal electrical circuits and connections	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       Is the panel builder's responsibility.         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, provide the information in the instruction	10.8 Connections for external conductors	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       Is the panel builder's responsibile 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, provide the information in the instruction	10.9.2 Power-frequency electric strength	
10.9.4 Testing of enclosures made of insulating material       Is the panel builder's responsibility.         10.10 Temperature rise       Is the panel builder's responsibile 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, provide the information in the instruction	10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
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	10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
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		The panel builder is responsible for the temperature rise calculation. Eaton will
10.13 Mechanical function       The device meets the requirements, provided the information in the instruction	10.11 Short-circuit rating	
	10.12 Electromagnetic compatibility	
leaner in the mean an	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)

Low-voltage industrial components (EG000017) / Power contactor, AC switching (EC0000	66)	
Electric engineering, automation, process control engineering / Low-voltage switch tech	nnology / Contactor	(LV) / Power contactor, AC switching (ecl@ss13-27-37-10-03 [AAB718020])
Rated control supply voltage AC 50 Hz	V	110 - 110
Rated control supply voltage AC 60 Hz	V	110 - 110
Rated control supply voltage DC	V	0 - 0
Voltage type for actuating		AC
Number of normally closed contacts as main contact		0
Number of normally open contacts as main contact		3
Type of electrical connection of main circuit		Screw connection
Operating voltage AC 50 Hz	V	230 - 690
Operating voltage AC 60 Hz	V	230 - 690
Rated operation current le at AC-1, 400 V	А	80
Rated operation current le at AC-3, 400 V	А	50
Rated operation power at AC-3, 400 V	kW	22
Rated operation current le at AC-4, 400 V	А	21
Rated operation power at AC-4, 400 V	kW	10
Rated operation power NEMA	kW	29.8
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as normally closed contact		0
Modular version		No
Width	mm	55
Height	mm	115
Depth	mm	132.1