## DATASHEET - DILM225A/22(RAC240)



Contactor, 380 V 400 V 110 kW, 2 N/O, 2 NC, RAC 240: 190 - 240 V 50/60 Hz, AC operation, Screw connection



Part no. DILM225A/22(RAC240)

139547

EL Number

4134287

(Norway)	
General specifications	
Product name	Eaton Moeller® series DILM Contactor
Part no.	DILM225A/22(RAC240)
EAN	4015081363254
Product Length/Depth	158 millimetre
Product height	190 millimetre
Product width	140 millimetre
Product weight	3.54 kilogram
Compliances	Contact Manufacturer
Certifications	UL UL File No.: E29096 CSA UL Category Control No.: NLDX VDE 0660 UL 60947-4-1 IEC/EN 60947-4-1 CSA-C22.2 No. 60947-4-1-14 CSA File No.: 2389068 IEC/EN 60947 CSA Class No.: 3211-04 CE
Product Tradename	DILM
Product Type	Contactor
Product Sub Type	None State S
Catalog Notes	Contacts according to EN 50012  Also tested according to AC-3e up to 500 V.  Also suitable for motors with efficiency class IE3.
General information	
Accessories	Fitting options auxiliary contacts: on the side: 2 x DILM1000-XHI(V)11-SI; 2 x DILM1000-XHI11-SA
Application	Contactors for Motors
Connection	Screw terminals
Degree of protection	IP00
Electromagnetic compatibility	Designed for operation in industrial environments. Its use in residential environments may cause radio-frequency interference, requiring additional nois suppression.
Fitted with:	Suppressor circuit in actuating electronics
Lifespan, electrical	100,000 Operations (at Condensor operation)
Lifespan, mechanical	10,000,000 Operations (AC operated)
Operating frequency	3000 mechanical Operations/h (AC operated) 200 Operations/h
Overvoltage category	III
Pollution degree	3
Product category	Contactors
Protection	Finger and back-of-hand proof with terminal shroud or terminal block, Protection against direct contact when actuated from front (EN 50274)
Rated impulse withstand voltage (Uimp)	8000 V AC
Shock resistance	10 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 8 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
Utilization category	AC-3: Normal AC induction motors: starting, switch off during running AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-1: Non-inductive or slightly inductive loads, resistance furnaces
Voltage type	AC

Climatic environmental conditions	
Altitude	Max. 2000 m
Ambient operating temperature - min	-40 °C
Ambient operating temperature - max	0° C
Ambient operating temperature (enclosed) - min	-40 °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
Terminal capacities	
Terminal capacity (busbar)	32 mm width, Main connection
Terminal capacity (copper band)	Fixing with flat cable terminal or cable terminal blocks; See terminal capacity for cable terminal blocks
Terminal capacity (flexible with cable lug)	50 - 185 mm <sup>2</sup>
Terminal capacity (flexible with ferrule)	$2 \times (0.75 - 2.5)$ mm <sup>2</sup> , Control circuit cables $1 \times (0.75 - 2.5)$ mm <sup>2</sup> , Control circuit cables
Terminal capacity (solid)	$2 \times (0.75 - 2.5)$ mm <sup>2</sup> , Control circuit cables $1 \times (0.75 - 2.5)$ mm <sup>2</sup> , Control circuit cables
Terminal capacity (solid/stranded AWG)	18 - 14, Control circuit cables 2/0 - 250 MCM, Main cables
Terminal capacity (stranded with cable lug)	70 - 185 mm <sup>2</sup>
Width across flats	16 mm
Screw size	M3.5, Terminal screw, Control circuit cables M10, Terminal screw, Main connections
Screwdriver size	2, Terminal screw, Control circuit cables, Pozidriv screwdriver
Tightening torque	1.2 Nm, Screw terminals, Control circuit cables 24 Nm, Main cable connection screw/bolt
lectrical rating	
Inrush current	Max. 30 x le (peak)
Rated breaking capacity at 220/230 V	2250 A
Rated breaking capacity at 380/400 V	2250 A
Rated breaking capacity at 500 V	2250 A
Rated breaking capacity at 660/690 V	2250 A
Rated breaking capacity at 1000 V	760 A
Rated insulation voltage (Ui)	1000 V
Rated making capacity (cos phi to IEC/EN 60947)	2700 A
Rated operational current (Ie)	220 A at up to 525 V (Individual compensation, three-phase capacitors, open) 133 A at 690 V (Individual compensation, three-phase capacitors, open)
Rated operational current (Ie) at AC-1, 380 V, 400 V, 415 V	356 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	225 A
Rated operational current (le) at AC-3, 380 V, 400 V, 415 V	225 A
Rated operational current (le) at AC-3, 440 V	225 A
Rated operational current (le) at AC-3, 500 V	225 A
Rated operational current (le) at AC-3, 660 V, 690 V	160 A
Rated operational current (le) at AC-3, 1000 V	76 A
Rated operational current (le) at AC-4, 220 V, 230 V, 240 V	164 A
Rated operational current (Ie) at AC-4, 440 V	164 A
Rated operational current (Ie) at AC-4, 500 V	164 A
Rated operational current (Ie) at AC-4, 660 V, 690 V	120 A
Rated operational current (Ie) at AC-4, 1000 V	55 A
Rated operational power at AC-3, 240 V, 50 Hz	75 kW
Rated operational power at AC-3, 380/400 V, 50 Hz	110 kW
Rated operational power at AC-3, 415 V, 50 Hz	132 kW
Rated operational power at AC-3, 440 V, 50 Hz	138 kW
Rated operational power at AC-3, 500 V, 50 Hz	160 kW
Rated operational power at AC-3, 690 V, 50 Hz	150 kW
Rated operational power at AC-3, 1000 V, 50 Hz	108 kW

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Rated operational power at AC-4, 220/230 V, 50 Hz	51 kW
Rated operational power at AC-4, 240 V, 50 Hz	54 kW
Rated operational power at AC-4, 415 V, 50 Hz	96 kW
Rated operational power at AC-4, 440 V, 50 Hz	102 kW
Rated operational power at AC-4, 500 V, 50 Hz	116 kW
Rated operational power at AC-4, 660/690 V, 50 Hz	110 kW
Rated operational voltage (Ue) at AC - max	1000 V
Rated operational power at AC-4, 1000 V, 50 Hz	77 kW
Safe isolation	1000 V AC, Between coil and contacts, According to EN 61140
Special purpose rating of definite purpose rating	336 A, FLA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 1680 A, LRA 600 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 2016 A, LRA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 280 A, FLA 600 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA)
Short-circuit rating	
Short-circuit current rating (basic rating)	700 A, max. Fuse, SCCR (UL/CSA) 600 A, max. CB, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA)
Short-circuit current rating (high fault at 480 V)	600 A, Class J, max. Fuse, SCCR (UL/CSA) 65 kA, CB, SCCR (UL/CSA) 350 A, max. CB, SCCR (UL/CSA) 100 kA, Fuse, SCCR (UL/CSA)
Short-circuit current rating (high fault at 600 V)	50 kA, CB, SCCR (UL/CSA) 350 A, max. CB, SCCR (UL/CSA) 600 A, Class J, max. Fuse, SCCR (UL/CSA) 100 kA, Fuse, SCCR (UL/CSA)
Short-circuit protection rating (type 1 coordination) at 1000 V	200 A gG/gL
Short-circuit protection rating (type 1 coordination) at 400 V	400 A gG/gL
Short-circuit protection rating (type 1 coordination) at 690 V	315 A gG/gL
Short-circuit protection rating (type 2 coordination) at 1000 V	160 A gG/gL
Short-circuit protection rating (type 2 coordination) at 400 V	315 A gG/gL
Short-circuit protection rating (type 2 coordination) at 690 V	250 A gG/gL
Conventional thermal current lth	
Conventional thermal current ith (1-pole, enclosed)	688 A
Conventional thermal current ith (3-pole, enclosed)	275 A
Conventional thermal current ith at 55°C (3-pole, open)	329 A
Conventional thermal current ith of main contacts (1-pole, open)	788 A
Switching capacity	
Switching capacity (main contacts, general use)	250 A, Maximum motor rating (UL/CSA)
Switching capacity (auxiliary contacts, general use)	15 A, 600 V AC, (UL/CSA) 1 A, 250 V DC, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)
Magnet system	
Drop-out voltage	AC operated: 0.25 x US max - 0.6 x US min, AC operated AC operated: 0.2 x US max - 0.4 x US min, AC operated
Duty factor	100 %
Pick-up voltage	0.8 - 1.15 V AC x Us
Power consumption Power consumption, pick-up, 50 Hz	110 kW  180 W, Pull-in power, Coil in a cold state and 1.0 x Us 210 VA, Pull-in power, Coil in a cold state and 1.0 x Us
Power consumption, pick-up, 60 Hz	180 W, Pull-in power, Coil in a cold state and 1.0 x Us 210 VA, Pull-in power, Coil in a cold state and 1.0 x Us
Power consumption, sealing, 50 Hz	2.6 VA, Coil in a cold state and 1.0 x Us 2.1 W, Coil in a cold state and 1.0 x Us
Power consumption, sealing, 60 Hz	2.1 W, Coil in a cold state and 1.0 x Us 2.6 VA, Coil in a cold state and 1.0 x Us
Rated control supply voltage (Us) at AC, 50 Hz - min	190 V
Rated control supply voltage (Us) at AC, 50 Hz - max	240 V
Rated control supply voltage (Us) at AC, 60 Hz - min	190 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 contracts, opening delay) - max  Motor rating  Assigned motor power at 200/280 V, 60 Hz, 3-phase  Assigned motor power at 200/280 V, 60 Hz, 3-phase  Assigned motor power at 200/280 V, 60 Hz, 3-phase  Assigned motor power at 375/600 V, 60 Hz, 3-phase  Contacts  Number of auxiliary contacts (normally closed contacts)  Number of auxiliary contacts (normally closed contacts)  Number of contacts (normally closed contacts)  2  Number of contacts (normally closed contacts)  2  Number of contacts (normally closed contacts)  2  Design verification  Equipment hear dissipation current-dependent Pvid  Hear dissipation capachy Pdiss  Based operational current for specified heat dissipation (In)  Static heat dissipation, non-urrent-dependent Pvis  Rated operational current for specified heat dissipation (In)  225 A  Static heat dissipation on resistance  102.21 Verification of termal stability of exclosures  102.22 Verification of resistance of insulating materials to normal heat:  102.23 Verification of resistance of insulating materials to normal heat:  102.24 Serification of resistance of insulating materials to normal heat:  102.25 Lifting  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  102.26 Lifting  Does not apply, since the entire switchgear needs to be evaluated.  102.76 Inscriptions  103 Degree of protection of assemblies  Does not apply, since the entire switchgear needs to be evaluated.  104 Clearances and creepage distances  105 Protection against electric shock  106 Incorporation of switching devices and components  Does not apply, since the entire switchgear needs to be evaluated.  107 Internal electrical circuits and connections  108 Degree of protection of assemblies  Does not apply, since the entire switchgear needs to be evaluated.  109 Power-frequency electric stending  109 Degree of protection of assemblies  109 Degree of protection of assemblies  109 Degree of protection of assemblies  109 Degree of protec		
Assigned motor gover at 200/28 V, 60 Hz. 3-phase Assigned motor gover at 200/28 V, 60 Hz. 3-phase Assigned motor gover at 400/28 V, 60 Hz. 3-phase Assigned motor gover at 400/28 V, 60 Hz. 3-phase Assigned motor gover at 400/28 V, 60 Hz. 3-phase Assigned motor gover at 500/28 V, 60 Hz. 3-phase  Contacts	Switching time (AC operated, make contacts, closing delay) - max	60 ms
Assigned motor gover at 200/200 V, 60 Hz, 3-phase Assigned motor gover at 400/400 V, 60 Hz, 3-phase Assigned motor gover at 400/400 V, 60 Hz, 3-phase Assigned motor gover at 400/400 V, 60 Hz, 3-phase Assigned motor gover at 400/400 V, 60 Hz, 3-phase Assigned motor gover at 400/400 V, 60 Hz, 3-phase  Contacts  Number of auxiliary contacts (normally closed contacts)  Number of auxiliary contacts (normally closed contacts)  2 Number of contacts formally (posed contacts)  2 Number of contacts (normally closed contacts)  2 Pesign verification  Contacts  Number of contacts (normally closed contacts)  2 Pesign verification  Design verification  Verification  Verification  Verification  Net dissipation (promote the following the	Switching time (AC operated, make contacts, opening delay) - max	40 ms
Assigned motor power at 230/240 V, 60 Hz, 3-phase Assigned motor power at 450/240 V, 60 Hz, 3-phase Assigned motor power at 450/240 V, 60 Hz, 3-phase  Contacts  Number of auxiliary contacts (normally closed contacts)  Number of oracits formally open contacts)  2 Number of contacts (normally open contacts)  2 Number of contacts formally open contacts  3 Number of contacts formally open contacts)  2 Number of contacts formally open contacts  3 Number of contacts formally open contacts  4 Number of contacts formally open contacts  3 Number of contacts formally open contacts  4 Number of contacts formally open contacts  5 Number of contacts formally open contacts  4 Number of contacts formally open contacts  5 Number of contacts formally open contacts  6 Number of contacts formally open contacts  7 Number of contacts  7	Motor rating	
Assigned motor power at 480,480 V, 60 Hz, 3-phase Assigned motor power at 480,480 V, 60 Hz, 3-phase Contacts  Number of auxiliary contacts (normally closed contacts)  Number of auxiliary contacts (normally open contacts)  Number of contacts (normally open contacts)  2 Number of contacts (normally open contacts)  2 Design verification  Equipment heat dissipation, current-dependent Pvid  Next dissipation appaict, current-dependent Pvid  Heat dissipation appaict, current-dependent Pvid  Astate deperational current for specified heat dissipation (non-current-dependent Pvid  10.2.3 I Verification of themsel stability of enclosures  10.2.3 I Verification of themsel stability of enclosures  10.2.3 Verification of themsel stability of enclosures  10.2.3 Peristic on themsel stability of enclosures  10.2.4 Resistance to ultra-violet (IX) radiation  10.2.5 High product standard's requirements.  Meets the product standard's requirements.  10.2.5 Liferia product standard's requirements.  10.2.6 Meets the product standard's requirements.  10.2.7 Peristic on a gaints electric shock  10.2 Peristic on a gaints electric shock  10.3 Reproduct standard's requirements.  10.4 Peristic on a gaint electric shock  10.5 Recreated and compections  10.6 Incorporation of switching devices and compensions  10.7 Inserting electric shock  10.8 Connections for external conductors  10.8 Reproduct standard's requirements.  10.9 Repro	Assigned motor power at 200/208 V, 60 Hz, 3-phase	60 HP
Assigned motor power at 575(900 V 60 Hz, 3-phase  Contacts  Number of auxiliary contacts (normally closed contacts)  Number of auxiliary contacts (normally open contacts)  2 Number of contacts (normally open contacts)  3 Number of contacts (normally open contacts)  4 Number of contacts (normally open contacts)  4 Number of contacts (normally open contacts)  4 Number of contacts (normally open contacts)  5 Number of contacts (normally open contacts)  5 Number of contacts (normally open contacts)  6 Number of contacts (normally open contacts)  7 Number of contacts (normally of contacts)  7 Nu	Assigned motor power at 230/240 V, 60 Hz, 3-phase	75 HP
Contacts  Number of auxiliary contacts (normally closed contacts)  Number of auxiliary contacts (normally open contacts)  2  Number of contacts (normally closed contacts)  2  Design verification  Equipment heat dissipation, current-dependent Pvid  Heat dissipation per polic, current-dependent Pvid  Reted operational current for specified heat dissipation (price in the dissipation per polic, current-dependent Pvid  Reted operational current for specified heat dissipation (price in the dissipation per polic, current-dependent Pvid  Reted operational current for specified heat dissipation (in)  223 A  Static heat dissipation, non-current-dependent Pvid  Reted dissipation per polic, current-dependent Pvid  Reted dissipation per policy distinct should per policy d	Assigned motor power at 460/480 V, 60 Hz, 3-phase	150 HP
Number of auxiliary contacts (normally closed contacts)  Number of auxiliary contacts (normally open contacts)  2 Number of contacts (normally open contacts)  2 Design verification  Equipment heat dissipation, current-dependent Pvid  Heat dissipation capacity Pdiss  Heat dissipation capacity Pdiss  Heat dissipation current-dependent Pvid  Heat dissipation current dependent Pvid  Heat dissipation current dependent Pvid  Rated operational current for specified heat dissipation (In)  Static heat dissipation, non-current-dependent Pvid  10.2.2 Corrosion resistance  Meets the product standard's requirements.  10.2.3.1 Verification of resistance of insulating materials to normal heat  10.2.3.2 Verification or resistance  Meets the product standard's requirements.  10.2.3.2 Resist or insul, mat. to abnormal heat/fire by internal elect. effects  10.2.4.3 Resistance to ultra-violet (IVI) radiation  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.  10.2.8 Meethenical impact  10.2.9 Inscriptions  Meets the product standard's requirements.  10.2.1 Designation of assemblies  Does not apply, since the entire switchgear needs to be evaluated.  10.4 Cloarances and croepage distances  Meets the product standard's requirements.  10.4 Cloarances and croepage distances  Meets the product standard's requirements.  10.4 Cloarances and croepage distances  Meets the product standard's requirements.  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  10.8 Connoctions for external conductors  10.9 Internal electrical circuits and connections  10.1 Internal electrical circuits and connections  10.2 Power-frequency electric strength  10.3 Impulse withstand voltage  10.4 In panel builder's responsibility.  10.5 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8	Assigned motor power at 575/600 V, 60 Hz, 3-phase	200 HP
Number of contacts (normally open contacts)  Number of contacts (normally closed contacts)  Pesign verification  Equipment hast dissipation, current-dependent Pvid  Heat dissipation capacity Pdiss  Rated operational current for specified heat dissipation (In)  Static heat dissipation, non-current-dependent Pvid  Aster departational current for specified heat dissipation (In)  225 A  Static heat dissipation, non-current-dependent Pvid  Rated operational current for specified heat dissipation (In)  225 A  Static heat dissipation, non-current-dependent Pvid  10.2.2 Corrosion resistance  Meets the product standard's requirements.  10.2.3.1 Verification of thermal stability of enclosures  10.2.3.1 Verification of thermal stability of enclosures  10.2.3.2 Verification of resistance of insulating materials to normal heat  10.2.3.3 Resist of insul. mat. to abnormal heat/fire by internal elect. effects  10.2.4 Resistance to ultra-violet (IUV) radiation  10.2.5 Lifeting  10.2.6 Meets the product standard's requirements.  10.2.7 Insertiptions  10.2 Bechanical impact  10.2 Inserciptions  10.3 Depre of protection of assemblies  10.4 Clearances and creepage distances  10.5 Protection against electric shock  10.6 Fornorparation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Connections for external conductors  10.9 Internal electrical circuits and connections  10.9 Internal electrical circ	Contacts	
Number of contacts (normally closed contacts)  Design verification  Equipment heat dissipation, current-dependent Pvid  Heat dissipation capacity Priss  OW  Heat dissipation per pole, current-dependent Pvid  Rated operational current for specified heat dissipation (in)  Static heat dissipation, non-current-dependent Pvid  Rated operational current for specified heat dissipation (in)  Static heat dissipation, non-current-dependent Pvs  2.1 W  10.22 Corrosion resistance  Meets the product standard's requirements.  10.23.1 Verification of thermal stability of enclosures  Meets the product standard's requirements.  10.23.2 Verification of resistance of insulating materials to normal heat  10.23.3 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.  10.2.7 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  10.9 Protection against electric strength  10.9 Incorporation of switching devices	Number of auxiliary contacts (normally closed contacts)	2
Design verification  Equipment heat dissipation, current-dependent Pvid 0W Heat dissipation capacity Pélas 0W Retat dissipation capacity Pélas 0W Retat dissipation per pole, current-dependent Pvid 7.67 W Rated operational current for specified heat dissipation (In) 225 A Static heat dissipation, non-current-dependent Pvs 2.1 W 10.22 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 heatfire by internal elect. effects Meets the product standard's requirements. 10.2.4 Resistance to ultra-violat (UV) radiation Meets the product standard's requirements. 10.2.5 Litting Des not apply, since the entire switchgear needs to be evaluated. 10.2.5 Necretical impact Des not apply, since the entire switchgear needs to be evaluated. 10.2.6 Mechanical impact Des not apply, since the entire switchgear needs to be evaluated. 10.2.7 Inscriptions Meets the product standard's requirements. 10.8 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. 10.6 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 Power-frequency electric strength Is the panel builder's responsibility. 10.9 Power-frequency electric strength Is the panel builder's responsibility. 10.9 The manufaction of i	Number of auxiliary contacts (normally open contacts)	2
Design verification  Equipment heat dissipation, current-dependent Pvid 0W  Heat dissipation capacity Pdiss 0W  Heat dissipation capacity Pdiss 0W  Heat dissipation capacity Pdiss 0W  Rated operational current for specified heat dissipation (In) 225 A  Static heat dissipation, non-current-dependent Pvid 27.4 W  10.22 Corrosion resistance Meets the product standard's requirements.  10.23.1 Verification of thermal stability of enclosures Meets the product standard's requirements.  10.23.2 Verification of resistance of insulating materials to normal heat Meets the product standard's requirements.  10.23.3 Resist of insul. mat. to abnormal heat/fire by internal elect. effects Meets the product standard's requirements.  10.24.4 Resistance to ultra-violet (UV) radiation Meets the product standard's requirements.  10.25 Lifting Does not apply, since the entire switchgear needs to be evaluated.  10.27 Inscriptions Meets the product standard's requirements.  10.30 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 electric alcricuits and connections Is the panel builder's responsibility.  10.8 Connections for external conductors Is the panel builder's responsibility.  10.9 Power-frequency electric strength Is the panel builder's responsibility.  10.9 Power-frequency electric strength Is the panel builder's responsibility.  10.9 Power-frequency electric strength Is the panel builder's responsibility.  10.10 Temperature rise The panel builder's responsibility.  10.10 Temperature rise The panel builder's responsibility.  10.11 Short-circuit reting Is the panel builder's responsibility.  10.12 Electromagnetic compatibility  10.13 Mechanical function Th	Number of contacts (normally closed contacts)	2
Equipment heat dissipation, current-dependent Pvid  Heat dissipation capacity Pdiss  0 W  Heat dissipation per pole, current-dependent Pvid  Rated operational current for specified heat dissipation (In)  225 A  Static heat dissipation, non-current-dependent Pvid  Rated operational current for specified heat dissipation (In)  225 A  Static heat dissipation, non-current-dependent Pvs  10.22 Corrosion resistance  Meets the product standard's requirements.  10.23.1 Verification of thermal stability of enclosures  Meets the product standard's requirements.  10.23.2 Verification of resistance of insulating materials to normal heat  10.23.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects  Meets the product standard's requirements.  10.24 Resistance to ultra-violet (UV) radiation  Meets the product standard's requirements.  10.25 Lifting  Does not apply, since the entire switchgear needs to be evaluated.  10.27 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.  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  The panel builder's responsibility.  10.11 Short-circuit rating  Is the panel builder's responsibility.  10.12 Electromagnetic compatibility  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	Number of contacts (normally open contacts)	2
Heat dissipation capacity Pdiss  Heat dissipation per pole, current-dependent Pvid  Rated operational current for specified heat dissipation (In)  Static heat dissipation, non-current-dependent Pvs  10.22 Corrosion resistance  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.  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.  10.3 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.  10.6 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.  10.9.3 Impulse withstand voltage  Is the panel builder's responsibility.  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  The panel builder's responsibility.  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  Is the panel builder's responsibility. The specifications	Design verification	
Heat dissipation per pole, current-dependent Pvid Rated operational current for specified heat dissipation (In)  Static heat dissipation, non-current-dependent Pvs  10.2.2 Corrosion resistance  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  10.2.3.2 Verification of resistance of insulating materials to normal heat  10.2.3.3 Resistance to ultra-violet (UV) radiation  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.  10.2.7 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  Meets the product standard's requirements.  10.7 Internal electrical circuits and connections  Is the panel builder's responsibility.  10.9 Connections for external conductors  Is the panel builder's responsibility.  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  The panel builder's responsibility.  10.11 Short-circuit rating  Lis the panel builder's responsibility.  11.12 Electromagnetic compatibility  Lis the panel builder's responsibility.  Lis the panel builder's responsibility.  Lis the panel builder's responsibility. The specifications for the switchgear must to observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	Equipment heat dissipation, current-dependent Pvid	0 W
Rated operational current for specified heat dissipation (In)  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 Resists, 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.  10.2.5 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.  10.5 Internal electrical circuits and connections  In the panel builder's responsibility.  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.  10.9.4 Testing of enclosures made of insulating material  Is the panel builder's responsibility.  10.10 Temperature rise  The panel builder's responsibility. The specifications for the switchgear must to observed.  10.11 Short-circuit rating  Is the panel builder's responsibility. The specifications for the switchgear must to observed.  10.12 Electromagnetic compatibility  Is the panel builder's responsibility. The specifications for the switchgear must be observed.	Heat dissipation capacity Pdiss	0 W
Static heat dissipation, non-current-dependent Pvs  10.2.2 Corrosion resistance  10.2.3.1 Verification of thermal stability of enclosures  10.2.3.2 Verification of resistance of insulating materials to normal heat  10.2.3.3 Resists of insul. mat. to abnormal heat/fire by internal elect. effects  10.2.4 Resistance to ultra-violet (UV) radiation  10.2.5 Litting  10.2.5 Litting  10.2.5 Does not apply, since the entire switchgear needs to be evaluated.  10.2.1 Inscriptions  10.3 Degree of protection of assemblies  10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Power-frequency electric strength  10.9.1 They are lectric in second to the evaluation of the panel builder's responsibility.  10.9.2 Temperature rise  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.13 Mechanical function  10.13 Mechanical function  10.14 Mechanical function  10.15 Internal electrication of the switchgear need to be evaluated.  10.16 Internal electrication of the switchgear need to be evaluated.  10.17 Internal electrication of the switchgear need to be evaluated.  10.18 Internal electrication of the switchgear need to be evaluated.  10.19 Internal electrication of the switchgear need to be evaluated.  10.19 Internal electrication of the switchgear need to be evaluated.  10.19 Internal electrication of the switchgear need to be evaluated.  10.19 Internal electrication of the switchgear need to be evaluated.  10.19 Internal electrication of the switchgear need to be evaluated.  10.19 Internal electrication of the switchgear need to be evaluated.  10.19 Internal electrication of the switchgear need to be evaluated.  10.19 Internal electrication of the switchgear need to be evaluated.  10.19 In	Heat dissipation per pole, current-dependent Pvid	7.67 W
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10.2.3 Verification of resistance of insulating materials to normal heat 10.2.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of assemblies 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9.1 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function  Meets the product standard's requirements. 10.6 Incorporation of switching devices and components 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Lonnections for external conductors 10.9 Power-frequency electric strength 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function  Meets the product standard's requirements.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  10.6 Incorporation of switching devices and components 10.8 Learned builder's responsibility.  10.9 Power-frequency electric strength 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects  10.2.4 Resistance to ultra-violet (UV) radiation  10.2.5 Lifting  10.2.6 Mechanical impact  10.2.6 Mechanical impact  10.2.7 Inscriptions  10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Power-frequency electric strength  10.9.1 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  In the device meets the requirements, provided the information in the instruction.	10.2.3.1 Verification of thermal stability of enclosures	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.  10.9.2 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  10.10 Temperature rise  The panel builder is responsibility. The specifications for the switchgear must be observed.  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.	10.2.3.2 Verification of resistance of insulating materials to normal heat	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.  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.  10.9.2 Power-frequency electric strength  Is the panel builder's responsibility.  10.9.3 Impulse withstand voltage  Is the panel builder's responsibility.  10.10 Temperature rise  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  10.13 Mechanical function  The device meets the requirements, provided 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.
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10.3 Degree of protection of assemblies  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.  10.9.4 Testing of enclosures made of insulating material  Is the panel builder's responsibility.  10.10 Temperature rise  The panel builder is responsibility. The specifications for the switchgear must be observed.  10.12 Electromagnetic compatibility  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9.2 Power-frequency electric strength  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  10 Does not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  The panel builder's responsibility.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  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	10.2.7 Inscriptions	Meets the product standard's requirements.
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Does not apply, since the entire switchgear needs to be evaluated.  10.7 Internal electrical circuits and connections  1s the panel builder's responsibility.  10.8 Connections for external conductors  1s the panel builder's responsibility.  10.9.2 Power-frequency electric strength  1s the panel builder's responsibility.  10.9.3 Impulse withstand voltage  1s the panel builder's responsibility.  1s the panel builder is responsibility. The specifications for the switchgear must be observed.  1s the panel builder's responsibility. The specifications for the switchgear must be observed.  1s the panel builder's responsibility. The specifications for the switchgear must be observed.  1s the panel builder's responsibility. The specifications for the switchgear must be observed.  1s the panel builder's responsibility. The specifications for the switchgear must be observed.  1s the panel builder's responsibility. The specifications for the switchgear must be observed.	10.4 Clearances and creepage distances	Meets the product standard's requirements.
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10.8 Connections for external conductors  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Is the panel builder's responsibility.  Is the panel builder is responsibility.  The panel builder is responsibility and the devices.  Is the panel builder is responsibility. The specifications for the switchgear must be observed.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  The device 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.
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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 is responsibility.  The panel builder is 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, provided 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  10.10 Temperature rise  The panel builder is responsibility.  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	10.9.2 Power-frequency electric strength	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	10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
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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	10.10 Temperature rise	
observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	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	· · · · · ·

## **Technical data ETIM 9.0**

Low-voltage industrial components (EG000017) / Power contactor, AC switching (EC000066) Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Power contactor, AC switching (ecl@ss13-27-37-10-03 [AAB718020]) 190 - 240 Rated control supply voltage AC 50 Hz Rated control supply voltage AC 60 Hz ٧ 190 - 240 Rated control supply voltage DC 0 - 0 AC Voltage type for actuating 0 Number of normally closed contacts as main contact Number of normally open contacts as main contact 3 Type of electrical connection of main circuit Rail connection Operating voltage AC 50 Hz ٧ 190 - 240 190 - 240 Operating voltage AC 60 Hz

Rated operation current le  at AC-1, 400 V	Α	356
Rated operation current le at AC-3, 400 V	Α	225
Rated operation power at AC-3, 400 V	kW	110
Rated operation current le at AC-4, 400 V	Α	164
Rated operation power at AC-4, 400 V	kW	90
Rated operation power NEMA	kW	111
Number of auxiliary contacts as normally open contact		2
Number of auxiliary contacts as normally closed contact		2
Modular version		No
Width	mm	140
Height	mm	190
Depth	mm	158