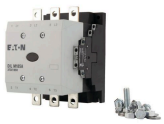
DATASHEET - DILM185A/22(RAC240)



Contactor, 380 V 400 V 90 kW, 2 N/O, 2 NC, RAC 240: 190 - 240 V 50/60 Hz, AC operation, Screw connection

Part no.	**DILM185A/22(RAC240)**
	139537
EL Number (Norway)	**4134277**

General specifications

Product name	Eaton Moeller® series DILM Contactor
Part no.	DILM185A/22(RAC240)
EAN	4015081363155
Product Length/Depth	158 millimetre
Product height	190 millimetre
Product width	140 millimetre
Product weight	3.54 kilogram
Certifications	UL CSA CSA Class No.: 3211-04 IEC/EN 60947-4-1 UL File No.: E29096 UL 60947-4-1 UL Category Control No.: NLDX IEC/EN 60947 VDE 0660 CE CSA-C22.2 No. 60947-4-1-14 CSA File No.: 2389068
Product Tradename	DILM
Product Type	Contactor
Product Sub Type	None
Catalog Notes	Conventional thermal current Ith of main contacts (1-pole, open) at 60° Also suitable for motors with efficiency class IE3. Also tested according to AC-3e up to 500 V. Contacts according to EN 50012

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 noise 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	200 Operations/h 3000 mechanical Operations/h (AC operated)
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	8 g, N/C 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 10 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
Utilization category	AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, switch off during running 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	60 °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, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78

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^2
Terminal capacity (flexible with ferrule)	1 x (0.75 - 2.5) mm^2, Control circuit cables 2 x (0.75 - 2.5) mm^2, Control circuit cables
Terminal capacity (solid)	2 x (0.75 - 2.5) mm^2, Control circuit cables 1 x (0.75 - 2.5) mm^2, Control circuit cables
Terminal capacity (solid/stranded AWG)	18 - 14, Control circuit cables 1/0 - 350 MCM, Main cables
Terminal capacity (stranded with cable lug)	50 - 185 mm^2
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	24 Nm, Main cable connection screw/bolt 1.2 Nm, Screw terminals, Control circuit cables

Electrical rating

Inrush current	Max. 30 x Ie (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)	133 A at 690 V (Individual compensation, three-phase capacitors, open) 220 A at up to 525 V (Individual compensation, three-phase capacitors, open)
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	185 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	185 A
Rated operational current (Ie) at AC-3, 440 V	185 A
Rated operational current (Ie) at AC-3, 500 V	185 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	150 A
Rated operational current (Ie) at AC-3, 1000 V	76 A
Rated operational current (Ie) at AC-4, 220 V, 230 V, 240 V	136 A
Rated operational current (Ie) at AC-4, 440 V	136 A
Rated operational current (Ie) at AC-4, 500 V	136 A
Rated operational current (Ie) at AC-4, 660 V, 690 V	110 A
Rated operational current (Ie) at AC-4, 1000 V	55 A
Rated operational power at AC-3, 240 V, 50 Hz	62 kW
Rated operational power at AC-3, 380/400 V, 50 Hz	90 kW
Rated operational power at AC-3, 415 V, 50 Hz	110 kW
Rated operational power at AC-3, 440 V, 50 Hz	115 kW
Rated operational power at AC-3, 500 V, 50 Hz	132 kW
Rated operational power at AC-3, 690 V, 50 Hz	140 kW
Rated operational power at AC-3, 1000 V, 50 Hz	108 kW
Rated operational power at AC-4, 220/230 V, 50 Hz	41 kW

Rated operational power at AC-4, 240 V, 50 Hz	45 kW
Rated operational power at AC-4, 415 V, 50 Hz	80 kW
Rated operational power at AC-4, 440 V, 50 Hz	85 kW
Rated operational power at AC-4, 500 V, 50 Hz	96 kW
Rated operational power at AC-4, 660/690 V, 50 Hz	102 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	2016 A, LRA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 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) 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) 10 kA, SCCR (UL/CSA) 800 A, max. CB, 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) 100 kA, Fuse, SCCR (UL/CSA) 350 A, max. CB, 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) 100 kA, Fuse, SCCR (UL/CSA) 600 A, Class J, max. 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

AC-1/Conventional thermal current Ith

Conventional thermal current ith at 40°C (3-pole, open)	337 A
Conventional thermal current ith at 50°C (3-pole, open)	301 A
Conventional thermal current ith at 55°C (3-pole, open)	287 A
Conventional thermal current ith at 60°C (3-pole, open)	275 A
Conventional thermal current ith (3-pole, enclosed)	245 A
Conventional thermal current ith of main contacts (1-pole, open)	688 A
Conventional thermal current ith (1-pole, enclosed)	613 A

Switching capacity

Switching capacity (main contacts, general use)	250 A, Maximum motor rating (UL/CSA)
Switching capacity (auxiliary contacts, general use)	1 A, 250 V DC, (UL/CSA) 15 A, 600 V AC, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	P300, DC operated (UL/CSA) A600, AC operated (UL/CSA)

Magnet system

Drop-out voltage	AC operated: 0.2 x US max - 0.4 x US min, AC operated AC operated: 0.25 x US max - 0.6 x US min, AC operated
Duty factor	100 %
Pick-up voltage	0.8 - 1.15 V AC x Us
Power consumption	90 kW
Power consumption, pick-up, 50 Hz	210 VA, Pull-in power, Coil in a cold state and 1.0 x Us 180 W, 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	2.1 W, Coil in a cold state and 1.0 x Us 2.6 VA, Coil in a cold state and 1.0 x Us
Power consumption, sealing, 60 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
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 contacts, closing delay) - max		60 ms
Switching time (AC operated, make contacts, opening delay) - max		40 ms
Motor rating		
Assigned motor power at 200/208 V, 60 Hz, 3-phase		50 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase		60 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase		125 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase		150 HP
Contacts		
Number of auxiliary contacts (normally closed contacts)		2
Number of auxiliary contacts (normally open contacts)		2
Number of contacts (normally closed contacts)		2
Number of contacts (normally open contacts)		2
Design verification		
Equipment heat dissipation, current-dependent Pvid		16 W
Heat dissipation capacity Pdiss		0 W
Heat dissipation per pole, current-dependent Pvid		5.33 W
Rated operational current for specified heat dissipation (In)		185 A
Static heat dissipation, non-current-dependent Pvs		2.1 W
10.2.2 Corrosion resistance		Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures		Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat		Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects		Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation		Meets the product standard's requirements.
10.2.5 Lifting		Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact		Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions		Meets the product standard's requirements.
10.3 Degree of protection of assemblies		Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances		Meets the product standard's requirements.
10.5 Protection against electric shock		Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components		Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections		Is the panel builder's responsibility.
10.8 Connections for external conductors		Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength		Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage		Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material		Is the panel builder's responsibility.
10.10 Temperature rise		The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating		Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility		Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function		The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Power contactor, AC switching (EC000066)

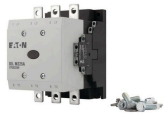
Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Power contactor, AC switching (ecl@ss13-27-37-10-03 [AAB718020])

Rated control supply voltage AC 50 Hz	V	190 - 240
Rated control supply voltage AC 60 Hz	V	190 - 240
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		Rail connection

Operating voltage AC 50 Hz		V	190 - 240
Operating voltage AC 60 Hz		V	190 - 240
Rated operation current Ie at AC-1, 400 V		A	
Rated operation current Ie at AC-3, 400 V		A	185
Rated operation power at AC-3, 400 V		kW	90
Rated operation current Ie at AC-4, 400 V		A	136
Rated operation power at AC-4, 400 V		kW	75
Rated operation power NEMA		kW	93
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

© 04/2023 by Eaton Industries GmbH

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 (Norway)	**4134287**

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
Certifications	CSA IEC/EN 60947 CSA Class No.: 3211-04 UL IEC/EN 60947-4-1 UL 60947-4-1 CE VDE 0660 UL File No.: E29096 CSA-C22.2 No. 60947-4-1-14 CSA File No.: 2389068 UL Category Control No.: NLDX
Product Tradename	DILM
Product Type	Contactor
Product Sub Type	None
Catalog Notes	Conventional thermal current Ith of main contacts (1-pole, open) at 60° Also suitable for motors with efficiency class IE3. Also tested according to AC-3e up to 500 V. Contacts according to EN 50012

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 noise 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	200 Operations/h 3000 mechanical Operations/h (AC operated)
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	8 g, N/C 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 10 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
Utilization category	AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, switch off during running
Voltage type	AC

Climatic environmental conditions

Altitude	Max. 2000 m
Ambient operating temperature - min	-40 °C
Ambient operating temperature - max	60 °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, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78

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^2
Terminal capacity (flexible with ferrule)	1 x (0.75 - 2.5) mm^2, Control circuit cables 2 x (0.75 - 2.5) mm^2, Control circuit cables
Terminal capacity (solid)	1 x (0.75 - 2.5) mm^2, Control circuit cables 2 x (0.75 - 2.5) mm^2, Control circuit cables
Terminal capacity (solid/stranded AWG)	2/0 - 250 MCM, Main cables 18 - 14, Control circuit cables
Terminal capacity (stranded with cable lug)	70 - 185 mm^2
Width across flats	16 mm
Screw size	M10, Terminal screw, Main connections M3.5, Terminal screw, Control circuit cables
Screwdriver size	2, Terminal screw, Control circuit cables, Pozidriv screwdriver
Tightening torque	24 Nm, Main cable connection screw/bolt 1.2 Nm, Screw terminals, Control circuit cables

Electrical rating

Inrush current	Max. 30 x Ie (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)	133 A at 690 V (Individual compensation, three-phase capacitors, open) 220 A at up to 525 V (Individual compensation, three-phase capacitors, open)
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	225 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	225 A
Rated operational current (Ie) at AC-3, 440 V	225 A
Rated operational current (Ie) at AC-3, 500 V	225 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	160 A
Rated operational current (Ie) at AC-3, 1000 V	76 A
Rated operational current (Ie) 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
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	280 A, FLA 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) 1680 A, LRA 600 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 336 A, FLA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA)

Short-circuit rating

Short-circuit current rating (basic rating)	10 kA, SCCR (UL/CSA) 600 A, max. CB, SCCR (UL/CSA) 700 A, max. Fuse, SCCR (UL/CSA)
Short-circuit current rating (high fault at 480 V)	100 kA, Fuse, SCCR (UL/CSA) 350 A, max. CB, SCCR (UL/CSA) 65 kA, CB, SCCR (UL/CSA) 600 A, Class J, max. Fuse, SCCR (UL/CSA)
Short-circuit current rating (high fault at 600 V)	100 kA, Fuse, SCCR (UL/CSA) 600 A, Class J, max. Fuse, SCCR (UL/CSA) 350 A, max. CB, SCCR (UL/CSA) 50 kA, CB, 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

AC-1/Conventional thermal current Ith

Conventional thermal current ith at 40°C (3-pole, open)	386 A
Conventional thermal current ith at 50°C (3-pole, open)	345 A
Conventional thermal current ith at 55°C (3-pole, open)	329 A
Conventional thermal current ith at 60°C (3-pole, open)	315 A
Conventional thermal current ith (3-pole, enclosed)	275 A
Conventional thermal current ith of main contacts (1-pole, open)	788 A
Conventional thermal current ith (1-pole, enclosed)	688 A

Switching capacity

Switching capacity (main contacts, general use)	250 A, Maximum motor rating (UL/CSA)
Switching capacity (auxiliary contacts, general use)	1 A, 250 V DC, (UL/CSA) 15 A, 600 V AC, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	P300, DC operated (UL/CSA) A600, AC operated (UL/CSA)

Magnet system

Drop-out voltage	AC operated: 0.2 x US max - 0.4 x US min, AC operated AC operated: 0.25 x US max - 0.6 x US min, AC operated
Duty factor	100 %
Pick-up voltage	0.8 - 1.15 V AC x Us
Power consumption	110 kW
Power consumption, pick-up, 50 Hz	210 VA, Pull-in power, Coil in a cold state and 1.0 x Us 180 W, Pull-in power, Coil in a cold state and 1.0 x Us
Power consumption, pick-up, 60 Hz	210 VA, Pull-in power, Coil in a cold state and 1.0 x Us 180 W, Pull-in power, Coil in a cold state and 1.0 x Us
Power consumption, sealing, 50 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
Power consumption, sealing, 60 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
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 contacts, closing delay) - max		60 ms
Switching time (AC operated, make contacts, opening delay) - max		40 ms
Motor rating		
Assigned motor power at 200/208 V, 60 Hz, 3-phase		60 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase		75 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase		150 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase		200 HP
Contacts		
Number of auxiliary contacts (normally closed contacts)		2
Number of auxiliary contacts (normally open contacts)		2
Number of contacts (normally closed contacts)		2
Number of contacts (normally open contacts)		2
Design verification		
Equipment heat dissipation, current-dependent Pvid		0 W
Heat dissipation capacity Pdiss		0 W
Heat 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
10.2.2 Corrosion resistance		Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures		Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat		Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects		Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation		Meets the product standard's requirements.
10.2.5 Lifting		Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact		Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions		Meets the product standard's requirements.
10.3 Degree of protection of assemblies		Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances		Meets the product standard's requirements.
10.5 Protection against electric shock		Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components		Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections		Is the panel builder's responsibility.
10.8 Connections for external conductors		Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength		Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage		Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material		Is the panel builder's responsibility.
10.10 Temperature rise		The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating		Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility		Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function		The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Power contactor, AC switching (EC000066)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Power contactor, AC switching (ecl@ss13-27-37-10-03 [AAB718020])		
Rated control supply voltage AC 50 Hz	V	190 - 240
Rated control supply voltage AC 60 Hz	V	190 - 240
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		Rail connection

Operating voltage AC 50 Hz		V	190 - 240
Operating voltage AC 60 Hz		V	190 - 240
Rated operation current Ie at AC-1, 400 V		A	
Rated operation current Ie at AC-3, 400 V		A	225
Rated operation power at AC-3, 400 V		kW	110
Rated operation current Ie at AC-4, 400 V		A	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

© 04/2023 by Eaton Industries GmbH