Specifications

Photo is representative

Eaton 277701

Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 15 kW, 1 N/O, 230 V 50 Hz, 240 V 60 Hz, AC operation, Spring-loaded terminals DILMC32-10(230V50HZ,240V60HZ)

General specification	าร
PRODUCT NAME	Eaton Moeller® series DILM contactor
CATALOG NUMBER	277701
MODEL CODE	DILMC32- 10(230V50HZ,240V60HZ)
EAN	4015082777012
PRODUCT LENGTH/DEPTH	97 mm
PRODUCT HEIGHT	85 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.433 kg
CERTIFICATIONS	UL UL File No.: E29096 IEC/EN 60947-4-1 UL Category Control No.: NLDX CSA CSA Class No.: 2411-03, 3211-04 CE CSA File No.: 012528 CSA-C22.2 No. 60947-4-1- 14 IEC/EN 60947 UL 60947-4-1 VDE 0660
CATALOG NOTES	Contacts according to EN 50012
GLOBAL CATALOG	277701



Three-pole The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. Is the panel builder's responsibility. The specifications for the switchgear must be observed. Is the panel builder's responsibility. The specifications for the switchgear must be observed. Is the panel builder's 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 leaflet (IL) is observed. 10.2.2 CORROSION RESISTANCE 10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES 10.2.3.2 VERIFICATION OF INSUL. ATTON OF INSUL. ATTON ORMAL HEAT 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 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. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements.	Product specifications	5
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ASSEMBLIES	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	ls the panel builder's responsibility.
OPERATING FREQUENCY	5000 mechanical Operations/h (AC operated)
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
CONNECTION TO SMARTWIRE-DT	No
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	8000 V AC
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
CONNECTION	Spring-loaded terminals
FRAME SIZE	FS2
AMBIENT OPERATING TEMPERATURE - MAX	60 °C
	60 °C -25 °C

SYSTEM OVERVIEW	contactor-system- overview.eps eaton-contactors-contact-
WIRING DIAGRAMS	dilm-wiring-diagram.eps

TEMPERATURE - MIN	
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	25 °C
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT STORAGE TEMPERATURE - MIN	40 °C
ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE	2 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	10 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	5 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	10 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	20 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	25 HP
CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	90 A
CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)	36 A
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	42 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)	100 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	6.6 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	2.2 W

APPLICATION	Contactors for Motors
PRODUCT CATEGORY	Contactors
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
TERMINALS	Spring-cage terminals on auxiliary and control circuit terminals
ARCING TIME	10 ms
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Spring clamp connection Screw connection
SCREWDRIVER SIZE	3.5 mm, Spring-loaded terminals, Control circuit cables 0.8 x 5.5/1 x 6 mm, Terminal screw, Main cables, Standard screwdriver 2, Terminal screw, Main cables, Pozidriv screwdriver
VOLTAGE TYPE	AC
DEGREE OF PROTECTION	IP00
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1
NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT	0
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	1
NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	3
RATED BREAKING CAPACITY AT 220/230 V	320 A
RATED BREAKING CAPACITY AT 380/400 V	320 A
RATED BREAKING CAPACITY AT 500 V	320 A
RATED BREAKING CAPACITY AT 660/690 V	180 A

RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN DROP-OUT VOLTAGE		
VOLTAGE (US) AT AC, 50 HZ - MIN230 VRATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX240 VRATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN240 VDROP-OUT VOLTAGE CATEGORYAC operated: 0.6 - 0.3 x UC, AC operatedOVERVOLTAGE CATEGORYIIIDUTY FACTOR100 %EMITTED INTERFERENCE IMMUNITYAccording to EN 60947-1INTERFERENCE IMMUNITYAccording to EN 60947-1PICK-UP VOLTAGE0.8 - 1.1 V AC x UcPOWER CONSUMPTION, PICK-UP, 50 HZ52 VA, Dual-frequency coil in a cold state and 1.0 x US, at 50 HzSAFE ISOLATION440 V AC, Between the contacts, According to EN 61140 440 V AC, Between coil and contacts, According to EN 61140POWER CONSUMPTION, PICK-UP, 60 HZ67 VA, Dual-frequency coil in a cold state and 1.0 x US, at 60 HzPOWER CONSUMPTION, SEALING, 50 HZMS, Terminal screw, Main cablesPOWER CONSUMPTION, SEALING, 50 HZ2.1 W, Dual-frequency coil in a cold state and 1.0 x US, at 50 HzPOWER CONSUMPTION, SEALING, 60 HZ2.1 W, Dual-frequency coil in a cold state and 1.0 x US, at 60 HzPOWER CONSUMPTION, SEALING, 60 HZ2.1 W, Dual-frequency coil in a cold state and 1.0 x US, at 60 Hz	VOLTAGE (US) AT AC, 50	230 V
VOLTAGE (US) AT AC, 60 240 V RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 240 V DROP-OUT VOLTAGE AC operated: 0.6 - 0.3 x UC, AC operated OVERVOLTAGE CATEGORY III DUTY FACTOR 100 % EMITTED INTERFERENCE IMMUNITY According to EN 60947-1 LIFESPAN, MECHANICAL INCK-UP, 50 HZ 10,000,000 Operations (AC operated) POWER CONSUMPTION, PICK-UP, 50 HZ 52 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz SAFE ISOLATION 440 V AC, Between the contacts, According to EN 61140 440 V AC, Between coil and contacts, According to EN 61140 67 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz SCREW SIZE M5, Terminal screw, Main cables POWER CONSUMPTION, SEALING, 50 HZ 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz POWER CONSUMPTION, SEALING, 60 HZ 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz POWER CONSUMPTION, SEALING, 60 HZ 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 8.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 8.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz	VOLTAGE (US) AT AC, 50	230 V
VOLTAGE (US) AT AC, 60 HZ - MIN240 VDROP-OUT VOLTAGEAC operated: 0.6 - 0.3 x UC, AC operatedOVERVOLTAGE CATEGORYIIIDUTY FACTOR100 %EMITTED INTERFERENCE IMMUNITYAccording to EN 60947-1LIFESPAN, MECHANICAL PICK-UP VOLTAGE10,000,000 Operations (AC operated)POWER CONSUMPTION, PICK-UP, 50 HZ52 VA, Dual-frequency coil in a cold state and 1.0 x US, at 50 HZSAFE ISOLATION440 V AC, Between the contacts, According to EN 61140 440 V AC, Between coil and contacts, According to EN 61140POWER CONSUMPTION, PICK-UP, 60 HZ67 VA, Dual-frequency coil in a cold state and 1.0 x US, at 60 HzSCREW SIZEM5, Terminal screw, Main cablesPOWER CONSUMPTION, SEALING, 50 HZ2.1 W, Dual-frequency coil in a cold state and 1.0 x US, at 50 HzPOWER CONSUMPTION, SEALING, 60 HZ2.1 W, Dual-frequency coil in a cold state and 1.0 x US, at 50 HzPOWER CONSUMPTION, SEALING, 60 HZ2.1 W, Dual-frequency coil in a cold state and 1.0 x US, at 60 Hz 8.7 VA, Dual-frequency coil in a cold state and 1.0 x US, at 60 Hz 8.7 VA, Dual-frequency coil in a cold state and 1.0 x US, at 60 Hz	VOLTAGE (US) AT AC, 60	240 V
OVERVOLTAGE CATEGORY DUTY FACTOR 100 % EMITTED INTERFERENCE IMMUNITY LIFESPAN, MECHANICAL PICK-UP VOLTAGE POWER CONSUMPTION, PICK-UP, 50 HZ SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 60 HZ SCREW SIZE POWER CONSUMPTION, PICK-UP, 50 HZ SCREW SIZE POWER CONSUMPTION, PICK-UP, 60 HZ SCREW SIZE DESCRIPTION DESCRIPTION POWER CONSUMPTION, PICK-UP, 60 HZ SCREW SIZE DESCRIPTION DESCRI	VOLTAGE (US) AT AC, 60	240 V
DUTY FACTOR DUTY FACTOR EMITTED INTERFERENCE IMMUNITY LIFESPAN, MECHANICAL PICK-UP VOLTAGE SAFE ISOLATION According to EN 60947-1 10,000,000 Operations (AC operated) 10,000,000 Operated) 10,000,000 Operations (AC operated) 10,000,000 Operated) 10,000,	DROP-OUT VOLTAGE	
INTERFERENCE IMMUNITY LIFESPAN, MECHANICAL PICK-UP VOLTAGE POWER CONSUMPTION, PICK-UP, 50 HZ SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 60 HZ POWER CONSUMPTION, SEALING, 50 HZ POWER CONSUMPTION, SEALING, 50 HZ According to EN 60947-1 10,000,000 Operations (AC operated) 10,000,000 Operated) 10,000 Operated) 10,000 Operated) 10,000		III
INTERFERENCE IMMUNITY According to EN 60947-1 LIFESPAN, MECHANICAL PICK-UP VOLTAGE 0.8 - 1.1 V AC x Uc POWER CONSUMPTION, PICK-UP, 50 HZ SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 60 HZ SCREW SIZE POWER CONSUMPTION, PICK-UP, 60 HZ SCREW SIZE POWER CONSUMPTION, SEALING, 50 HZ POWER CONSUMPTION, SEALING, 60 HZ POWER CONSUMPTION, SEALING, 60 HZ According to EN 60947-1 10,000,000 Operations (AC operated) 10,000,000 Operated) 10,000,000 Operated) 10,000,000 Operated) 10,000,000 Operated) 10,00,000	DUTY FACTOR	100 %
LIFESPAN, MECHANICAL PICK-UP VOLTAGE POWER CONSUMPTION, PICK-UP, 50 HZ SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 60 HZ POWER CONSUMPTION, PICK-UP, 60 HZ SCREW SIZE POWER CONSUMPTION, SEALING, 50 HZ According to EN 60947-1 10,000,000 Operations (AC operated) 52 VA, Dual-frequency coil in a cold state and 1.0 x US, at 50 HZ 440 V AC, Between the contacts, According to EN 61140 440 V AC, Between coil and contacts, According to EN 61140 67 VA, Dual-frequency coil in a cold state and 1.0 x US, at 60 HZ M5, Terminal screw, Main cables 2.1 W, Dual-frequency coil in a cold state and 1.0 x US, at 50 HZ 7.1 VA, Dual-frequency coil in a cold state and 1.0 x US, at 50 HZ POWER CONSUMPTION, SEALING, 60 HZ POWER CONSUMPTION, SEALING, 60 HZ POWER CONSUMPTION, SEALING, 60 HZ 10,000,000 Operations (AC operated) 52 VA, Dual-frequency coil in a cold state and 1.0 x US, at 60 Hz 2.1 W, Dual-frequency coil in a cold state and 1.0 x US, at 60 Hz 10,000,000 Operations (AC operated) 10,000,000 Operated) 10,0	EMITTED INTERFERENCE	According to EN 60947-1
PICK-UP VOLTAGE 0.8 - 1.1 V AC x Uc 52 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 440 V AC, Between the contacts, According to EN 61140 440 V AC, Between coil and contacts, According to EN 61140 POWER CONSUMPTION, PICK-UP, 60 HZ SCREW SIZE M5, Terminal screw, Main cables 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 7.1 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 7.1 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 7.1 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 7.1 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 8.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 8.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz		According to EN 60947-1
POWER CONSUMPTION, PICK-UP, 50 HZ SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 60 HZ SCREW SIZE POWER CONSUMPTION, SEALING, 50 HZ POWER CONSUMPTION, SEALING, 60 HZ POWER CONSUMPTION, SEALING, 60 HZ SCREW SIZE SOURCE CONSUMPTION, SEALING, 60 HZ SOURCE CONSUMPTION, SEALING, 60	LIFESPAN, MECHANICAL	·
power consumption, Pick-up, 50 Hz SAFE ISOLATION SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 60 Hz POWER CONSUMPTION, PICK-UP, 60 HZ SCREW SIZE POWER CONSUMPTION, SEALING, 50 HZ POWER CONSUMPTION, SEALING, 60 HZ POWER CONSUMPTION, SEALING, 60 HZ In a cold state and 1.0 x Us, at 50 Hz 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 7.1 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 7.1 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 8.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 8.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 8.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 8.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz	PICK-UP VOLTAGE	0.8 - 1.1 V AC x Uc
SAFE ISOLATION Contacts, According to EN 61140 440 V AC, Between coil and contacts, According to EN 61140 POWER CONSUMPTION, PICK-UP, 60 HZ SCREW SIZE M5, Terminal screw, Main cables 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 7.1 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 7.1 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 8.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 8.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz		in a cold state and 1.0 x
POWER CONSUMPTION, PICK-UP, 60 HZ SCREW SIZE M5, Terminal screw, Main cables 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz POWER CONSUMPTION, SEALING, 50 HZ POWER CONSUMPTION, SEALING, 60 HZ 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 8.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 8.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz	SAFE ISOLATION	contacts, According to EN 61140 440 V AC, Between coil and contacts, According to
POWER CONSUMPTION, SEALING, 50 HZ POWER CONSUMPTION, SEALING, 50 HZ POWER CONSUMPTION, SEALING, 50 HZ 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 8.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz		in a cold state and 1.0 x
power consumption, SEALING, 50 HZ POWER CONSUMPTION, SEALING, 50 HZ POWER CONSUMPTION, SEALING, 60 HZ in a cold state and 1.0 x Us, at 50 Hz 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 8.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 8.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz	SCREW SIZE	
in a cold state and 1.0 x POWER CONSUMPTION, SEALING, 60 HZ Us, at 60 Hz 8.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz		in a cold state and 1.0 x Us, at 50 Hz 7.1 VA, Dual-frequency coil in a cold state and 1.0 x
TERMINAL CAPACITY 1 x 16 mm², Main cables		in a cold state and 1.0 x Us, at 60 Hz 8.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
	TERMINAL CAPACITY	1 x 16 mm², Main cables

(STRANDED)	
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	10 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)
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (0.75 - 10) mm², Main cables 1 x (0.75 - 1.5) mm², Control circuit cables, Spring-loaded terminals 2 x (0.75 - 1.5) mm², Control circuit cables, Spring-loaded terminals 1 x (0.75 - 16) mm², Main cables
SHOCK RESISTANCE	5.3 g, N/O auxiliary 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, Half-sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 3.5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 6.9 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
TERMINAL CAPACITY (SOLID)	2 x (0.75 - 10) mm ² , Main cables 1 x (0.75 - 2.5) mm ² , Control circuit cables, Spring-loaded terminals 1 x (0.75 - 16) mm ² , Main cables 2 x (0.75 - 2.5) mm ² ,

	Control circuit cables, Spring-loaded terminals
TERMINAL CAPACITY (SOLID/STRANDED AWG)	Single 18 - 6, double 18 - 8, Main cables 18 - 14, Control circuit cables, Spring-loaded terminals
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	40 A, Maximum motor rating (UL/CSA)
TIGHTENING TORQUE	3.2 Nm, Screw terminals, Main cables
TERMINAL CAPACITY (FLEXIBLE)	2 x (0.75 - 2.5) mm², Control circuit cables, Spring-loaded terminals 1 x (0.75 - 2.5) mm², Control circuit cables, Spring-loaded terminals
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 V
RATED INSULATION VOLTAGE (UI)	690 V
RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947)	384 A
RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	45 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	32 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	32 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	32 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	32 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	18 A
RATED OPERATIONAL CURRENT (IE) AT AC-4,	15 A

220 V, 230 V, 240 V	
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	15 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	15 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	15 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	12 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V	40 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V	40 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V	40 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	32 A
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	11 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	15 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	19 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	4 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	4.5 kW
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	7 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	7.5 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	8 kW
RATED OPERATIONAL	9 kW

POWER AT AC-4, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ RATED OPERATIONAL POWER (NEMA) RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX RESISTANCE PER POLE STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS STRIPPING LENGTH (CONTROL CIRCUIT CABLE) STRIPPING LENGTH (MAIN CABLE) SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX 14 ms 14 ms
POWER AT AC-4, 660/690 V, 50 HZ RATED OPERATIONAL POWER (NEMA) RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX RESISTANCE PER POLE STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS STRIPPING LENGTH (CONTROL CIRCUIT CABLE) STRIPPING LENGTH (MAIN CABLE) SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING
POWER (NEMA) RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX RESISTANCE PER POLE STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS STRIPPING LENGTH (CONTROL CIRCUIT CABLE) STRIPPING LENGTH (MAIN CABLE) SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING
VOLTAGE (UE) AT AC - MAX RESISTANCE PER POLE 2.7 mΩ STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS STRIPPING LENGTH (CONTROL CIRCUIT CABLE) STRIPPING LENGTH (MAIN CABLE) SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING 14 ms
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS STRIPPING LENGTH (CONTROL CIRCUIT CABLE) STRIPPING LENGTH (MAIN CABLE) SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING 14 ms
DISSIPATION, NON- CURRENT-DEPENDENT PVS STRIPPING LENGTH (CONTROL CIRCUIT 10 mm CABLE) STRIPPING LENGTH (MAIN CABLE) SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING 14 ms
(CONTROL CIRCUIT CABLE) STRIPPING LENGTH (MAIN CABLE) SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING
(MAIN CABLE) SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING 10 mm 10 mm 10 mm
OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING 14 ms
OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING
OPERATED, MAKE CONTACTS, OPENING 14 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN
SHORT-CIRCUIT CURRENT RATING (BASIC RATING) 5 kA, SCCR (UL/CSA) 125 A, max. Fuse, SCCR (UL/CSA) 125 A, max. CB, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V) 10/100 kA, Fuse, SCCR (UL/CSA) 10/65 kA, CB, SCCR (UL/CSA) 50/32 A, max. CB, SCCR (UL/CSA) 125/70 A, Class J, max. Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT125/125 A, Class J, max.RATING (HIGH FAULT ATFuse, SCCR (UL/CSA)

600 V)	50/32 A, max. CB, SCCR (UL/CSA) 10/100 kA, Fuse, SCCR (UL/CSA) 10/22 kA, CB, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V	125 A gG/gL
SUITABLE FOR	Also motors with efficiency class IE3
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V	63 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V	63 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V	35 A gG/gL
SPECIAL PURPOSE RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS	40 A (600V 60Hz 3phase, 347V 60Hz 1phase) 40 A (480V 60Hz 3phase, 277V 60Hz 1phase)
SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING	192 A, LRA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 32 A, FLA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA)
SPECIAL PURPOSE RATING OF ELEVATOR CONTROL	7.5 HP, 200 V 60 Hz 3-ph, (UL/CSA) 20 HP, 600 V 60 Hz 3-ph, (UL/CSA) 7.5 HP, 240 V 60 Hz 3-ph, (UL/CSA) 27 A, 480 V 60 Hz 3-ph, (UL/CSA) 22 A, 600 V 60 Hz 3-ph, (UL/CSA) 25.3 A, 200 V 60 Hz 3-ph, (UL/CSA) 22 A, 240 V 60 Hz 3-ph, (UL/CSA) 20 HP, 480 V 60 Hz 3-ph, (UL/CSA)
SPECIAL PURPOSE RATING OF REFRIGERATION	30 A, FLA 600 V 60 Hz 3phase; (CSA) 40 A, FLA 480 V 60 Hz

CONTROL (CSA ONLY)	3phase; (CSA) 180 A, LRA 600 V 60 Hz 3phase; (CSA) 240 A, LRA 480 V 60 Hz 3phase; (CSA)
SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING	40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 40 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)
SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS	40 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	45 A
CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	43 A
CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)	40 A
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	20 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	23 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	17 kW
ACTUATING VOLTAGE	230 V 50 Hz, 240 V 60 Hz
ALTITUDE	Max. 2000 m
OPERATING VOLTAGE AT AC, 50 HZ - MIN	24 V
OPERATING VOLTAGE AT AC, 50 HZ - MAX	690 V
OPERATING VOLTAGE AT AC, 60 HZ - MIN	24 V
OPERATING VOLTAGE AT AC, 60 HZ - MAX	690 V

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



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