## Specifications







## Eaton 277011

Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 7.5 kW, 1 N/O, 220 V 50/60 Hz, AC operation, Screw terminals DILM17-10(220V50/60HZ)

General Specification	าร
PRODUCT NAME	Eaton Moeller® series DILM contactor
CATALOG NUMBER	277011
EAN	4015082770112
PRODUCT LENGTH/DEPTH	97 mm
PRODUCT HEIGHT	85 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.428 kg
CERTIFICATIONS	UL File No.: E29096 CSA Class No.: 2411-03, 3211-04 UL CSA VDE 0660 CSA File No.: 012528 IEC/EN 60947-4-1 CSA-C22.2 No. 60947-4-1-14 CE IEC/EN 60947 UL 60947-4-1 UL Category Control No.: NLDX
CATALOG NOTES	Contacts according to EN 50012
MODEL CODE	DILM17-10(220V50/60HZ)



Product specifications	
ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT	Screw connection
NUMBER OF POLES	Three-pole
VOLTAGE RATING	220 V
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.
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.

Resources	
CATALOGUES	Product Range Catalog Switching and protecting motors
	eaton-product-overview- for-machinery-catalogue- ca08103003zen-en-us.pdf
	SmartWire-DT Catalog
	eaton-contactors-switch- dilm-characteristic- curve.eps
CHARACTERISTIC CURVE	eaton-contactors-switch-dilm-characteristic-curve-002.eps
	eaton-contactors- component-dilm- characteristic-curve- 003.eps
DECLARATIONS OF	eaton-contactor- declaration-of-conformity- uk251218en.pdf
CONFORMITY	eaton-contactor- declaration-of-conformity- eu250735en.pdf
	eaton-contactors- dimensions-210t014.eps
	eaton-contactors-contact- dimensions-210x202.eps
	eaton-contactors- mounting-dilm-
	dimensions.eps
DRAWINGS	eaton-contactors-
	mounting-dilm- dimensions-002.eps
	eaton-general-ie-ready-
	dilm-contactor- standards.eps
	eaton-contactors-dilm-3d- drawing-009.eps
ECAD MODEL	ETN.277011.edz
INSTALLATION INSTRUCTIONS	IL03407014Z2021 09.pdf
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MCAD MODEL	DA-CD-dil m17 38
MCAD MODEL	DA-CS-dil m17 38

	standardis requirements
10.2 DECREE OF	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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
FREQUENCY RATING	50-60 Hz
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-1: Non-inductive or slightly inductive loads, resistance furnaces AC-3: Normal AC induction motors: starting, switch off during running AC-4: Normal AC induction motors: starting, plugging, reversing, inching
CONNECTION	Screw terminals
FRAME SIZE	FS2

PEP ECO-PASSPORT	eaton-iec-contactors-pep- eato-00124-v0101-en.pdf
SYSTEM OVERVIEW	eaton-contactors-dilm- contactor-system- overview.eps
WIRING DIAGRAMS	eaton-contactors-contact- dilm-wiring-diagram.eps

AMBIENT OPERATING TEMPERATURE - MIN  AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX  AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN  AMBIENT STORAGE TEMPERATURE - MAX  AMBIENT STORAGE TEMPERATURE - MIN  ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 4575/600 V, 60 HZ, 3-PHASE  CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)  CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN)  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID  HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID  ADDITIONAL CONVENTIONAL THEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID  ADDITIONAL CONVENTIONAL CONVENTIONAL THERMAL CURRENT- DEPENDENT PVID  ADDITIONAL CONVENTIONAL THERMAL CURRENT- DEPENDENT PVID  CONVENTIONAL THERMAL CURRENT- THERMAL CURRENT- THERMAL CURRENT- THERMAL CURRENT- THERMAL CURRENT- THERMAL CURRENT- THERMAL C		
TEMPERATURE (ENCLOSED) - MAX  AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN  AMBIENT STORAGE TEMPERATURE - MAX  AMBIENT STORAGE TEMPERATURE - MAX  AMBIENT STORAGE TEMPERATURE - MIN  ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 450/480 V, 60 HZ, 3-PHASE  CONVERTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN)  CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN)  EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID  HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID  HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID  HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID		-25 °C
TEMPERATURE (ENCLOSED) - MIN  AMBIENT STORAGE TEMPERATURE - MAX  AMBIENT STORAGE TEMPERATURE - MIN  ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE  CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH (3-POLE, OPEN)  CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN)  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID  HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID  ON W	TEMPERATURE	40 °C
TEMPERATURE - MAX  AMBIENT STORAGE TEMPERATURE - MIN  ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE  CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN)  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID  HEAT DISSIPATION PER POLE, CURRENT- DOLE, CURRENT- DEPENDENT PVID  HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID  0 W	TEMPERATURE	-25 °C
TEMPERATURE - MIN  ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE  CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)  CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN)  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID  HEAT DISSIPATION CAPACITY PDISS  0 W  HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID  0.7 W		80 °C
POWER AT 115/120 V, 60 HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE  CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)  CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN)  EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID  HEAT DISSIPATION CAPACITY PDISS  HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID  0.7 W		-40 °C
POWER AT 200/208 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE  CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)  CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN)  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID  HEAT DISSIPATION CAPACITY PDISS  HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID  O W	POWER AT 115/120 V, 60	2 HP
POWER AT 230/240 V, 60 HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE  CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)  CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN)  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID  HEAT DISSIPATION CAPACITY PDISS  HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID  0.7 W	POWER AT 200/208 V, 60	5 HP
POWER AT 230/240 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE  CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)  CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN)  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID  HEAT DISSIPATION CAPACITY PDISS  HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID  O W	POWER AT 230/240 V, 60	3 HP
POWER AT 460/480 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE  CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)  CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN)  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID  HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID  10 HP  10 HP  10 HP  11 HP  12 HP  15 HP  15 HP  15 HP  16 HP  1	POWER AT 230/240 V, 60	5 HP
POWER AT 575/600 V, 60 HZ, 3-PHASE  CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)  CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN)  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID  HEAT DISSIPATION CAPACITY PDISS  HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID  15 HP  80 A  32 A  88 A  9 O  9 O  9 O  9 O  9 O  9 O  9 O  9	POWER AT 460/480 V, 60	10 HP
THERMAL CURRENT ITH (1-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)  CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN)  EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID  HEAT DISSIPATION CAPACITY PDISS  HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID  O W  DEPENDENT PVID	POWER AT 575/600 V, 60	15 HP
THERMAL CURRENT ITH (3-POLE, ENCLOSED)  CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)  CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID  HEAT DISSIPATION CAPACITY PDISS  HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID  O W  O W	THERMAL CURRENT ITH	80 A
THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)  CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN)  EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID  HEAT DISSIPATION CAPACITY PDISS  HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID  O W  O W  O W  O W  O W  O W  O W	THERMAL CURRENT ITH	32 A
THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID  HEAT DISSIPATION CAPACITY PDISS  HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID  88 A  0 W	THERMAL CURRENT ITH	37 A
DISSIPATION, CURRENT- DEPENDENT PVID  HEAT DISSIPATION CAPACITY PDISS  HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID  2.1 W  0 W  0 W	THERMAL CURRENT ITH OF MAIN CONTACTS (1-	88 A
CAPACITY PDISS  HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID  0 W 0.7 W	DISSIPATION, CURRENT-	2.1 W
POLE, CURRENT- 0.7 W DEPENDENT PVID		0 W
ADDITIONI Contactors for Maters	POLE, CURRENT-	0.7 W
AFFLICATION CONLACTORS FOR MOTORS	APPLICATION	Contactors for Motors
AFFLICATION CONTACTORS FOR MIOTORS	APPLICATION	Contactors for Motors

DDODUST CATEGORY	
PRODUCT CATEGORY	Contactors
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
ARCING TIME	10 ms
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
SCREWDRIVER SIZE	2, Terminal screw, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard 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	170 A
RATED BREAKING CAPACITY AT 380/400 V	170 A
RATED BREAKING CAPACITY AT 500 V	170 A
RATED BREAKING CAPACITY AT 660/690 V	120 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	220 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	220 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	220 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	220 V

CONTACT CONFIGURATION	1 NO
DROP-OUT VOLTAGE	AC operated: 0.6 - 0.3 x UC, AC operated
OVERVOLTAGE CATEGORY	Ш
DUTY FACTOR	100 %
EMITTED INTERFERENCE	According to EN 60947-1
INTERFERENCE IMMUNITY	According to EN 60947-1
LIFESPAN, MECHANICAL	10,000,000 Operations (AC operated) 7,000,000 Operations (Coil 50/60 Hz)
PICK-UP VOLTAGE	0.8 - 1.1 V AC x Uc
POWER CONSUMPTION,	58 VA, Dual-frequency coil in a cold state and 1.0 x Us
PICK-UP, 50 HZ	62 VA, Dual-frequency coil in a cold state and 1.0 x Us
SAFE ISOLATION	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	62 VA, Dual-frequency coil in a cold state and 1.0 x Us 58 VA, Dual-frequency coil in a cold state and 1.0 x Us
SCREW SIZE	M5, Terminal screw, Main cables M3.5, Terminal screw, Control circuit cables
POWER CONSUMPTION, SEALING, 50 HZ	2.1 W, Dual-frequency coil in a cold state and 1.0 x Us
	2.1 W, Dual-frequency coil in a cold state and 1.0 x Us
POWER CONSUMPTION, SEALING, 60 HZ	6.5 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 9.1 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
TERMINAL CAPACITY (STRANDED)	1 x 16 mm², Main cables
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	10 A, 600 V AC, (UL/CSA) 1 A, 250 V DC, (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS,	P300, DC operated (UL/CSA)

PILOT DUTY)	A600, AC operated (UL/CSA)
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (0.75 - 10) mm², Main cables 2 x (0.75 - 2.5) mm², Control circuit cables 1 x (0.75 - 16) mm², Main cables 1 x (0.75 - 2.5) mm², Control circuit cables
SHOCK RESISTANCE	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 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 6.9 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 3.5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 3.5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
TERMINAL CAPACITY (SOLID)	2 x (0.75 - 10) mm², Main cables 1 x (0.75 - 16) mm², Main cables 1 x (0.75 - 4) mm², Control circuit cables 2 x (0.75 - 2.5) mm², Control circuit cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14, Control circuit cables Single 18 - 6, double 18 - 8, Main cables
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	40 A, Maximum motor rating (UL/CSA)
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POWER CONSUMPTION	7.5 kW

	1.2 Nm, Screw terminals, Control circuit cables
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)	238 A
RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	40 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	18 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	18 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	18 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	18 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	12 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	10 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	10 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	10 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	10 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	8 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V	35 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V	35 A

RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V	35 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	18 A
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	5.5 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	7.5 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	10 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	2.5 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	3 kW
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	4.5 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	5 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	5.5 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	6 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	6.5 kW
RATED OPERATIONAL POWER (NEMA)	7.4 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RESISTANCE PER POLE	2.7 mΩ
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	2.1 W
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	10 mm
STRIPPING LENGTH (MAIN CABLE)	10 mm
SWITCHING TIME (AC	22 ms

OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	16 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	14 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	8 ms
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	125 A, max. CB, SCCR (UL/CSA) 5 kA, SCCR (UL/CSA) 125 A, max. Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)	125/70 A, Class J, max. Fuse, SCCR (UL/CSA) 50/32 A, max. CB, SCCR (UL/CSA) 10/65 kA, CB, SCCR (UL/CSA) 10/100 kA, Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	10/100 kA, Fuse, SCCR (UL/CSA) 125/70 A, Class J, max. Fuse, SCCR (UL/CSA) 50/32 A, max. CB, SCCR (UL/CSA) 10/22 kA, CB, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V	63 A gG/gL
SUITABLE FOR	Also motors with efficiency class IE3
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V	50 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V	35 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V	35 A gG/gL
SPECIAL PURPOSE	40 A (600V 60Hz 3phase,

RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS	347V 60Hz 1phase) 40 A (480V 60Hz 3phase, 277V 60Hz 1phase)
SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING	108 A, LRA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 18 A, FLA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA)
SPECIAL PURPOSE RATING OF ELEVATOR CONTROL	11 A, 480 V 60 Hz 3-ph, (UL/CSA) 11 A, 600 V 60 Hz 3-ph, (UL/CSA) 11 A, 200 V 60 Hz 3-ph, (UL/CSA) 3 HP, 200 V 60 Hz 3-ph, (UL/CSA) 9.6 A, 240 V 60 Hz 3-ph, (UL/CSA) 3 HP, 240 V 60 Hz 3-ph, (UL/CSA) 7.5 HP, 480 V 60 Hz 3-ph, (UL/CSA) 10 HP, 600 V 60 Hz 3-ph, (UL/CSA)
SPECIAL PURPOSE RATING OF REFRIGERATION CONTROL (CSA ONLY)	180 A, LRA 600 V 60 Hz 3phase; (CSA) 40 A, FLA 480 V 60 Hz 3phase; (CSA) 30 A, FLA 600 V 60 Hz 3phase; (CSA) 240 A, LRA 480 V 60 Hz 3phase; (CSA)
SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING	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)
SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS	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)
CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	40 A
CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	38 A
CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)	35 A
RATED OPERATIONAL POWER AT AC-3, 440 V, 50	10.5 kW

HZ	
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	12 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	11 kW
ACTUATING VOLTAGE	220 V 50/60 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	690 V

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



**Eaton Corporation plc** Eaton House 30 Pembroke Road Dublin 4, Ireland Eaton.com

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