## Specifications







## Eaton 277007

Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 7.5 kW, 1 N/O, 415 V 50 Hz, 480 V 60 Hz, AC operation, Screw terminals DILM17-10(415V50HZ,480V60HZ)

General specification	ıs
PRODUCT NAME	Eaton Moeller® series DILM contactor
CATALOG NUMBER	277007
MODEL CODE	DILM17- 10(415V50HZ,480V60HZ)
EAN	4015082770075
PRODUCT LENGTH/DEPTH	97 mm
PRODUCT HEIGHT	85 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.428 kg
CERTIFICATIONS	VDE 0660 CSA IEC/EN 60947 UL
CATALOG NOTES	Contacts according to EN 50012
GLOBAL CATALOG	277007



Product specification	S
ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT	Screw connection
NUMBER OF POLES	Three-pole
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	
	SmartWire-DT Catalog
CATALOGS	Product Range Catalog Switching and protecting motors
	eaton-product-overview- for-machinery-catalogue- ca08103003zen-en-us.pdf
	eaton-contactors-switch-dilm-characteristic-curve-002.eps
CHARACTERISTIC CURVE	eaton-contactors- component-dilm- characteristic-curve- 003.eps
	eaton-contactors-switch-dilm-characteristic-curve.eps
DECLARATIONS OF	DA-DC-00004783.pdf
CONFORMITY	DA-DC-00004816.pdf
	eaton-contactors- dimensions-210t014.eps
	eaton-contactors-contact- dimensions-210x202.eps
	eaton-contactors- mounting-dilm- dimensions-002.eps
DRAWINGS	eaton-contactors- mounting-dilm- dimensions.eps
	eaton-general-ie-ready- dilm-contactor- standards.eps
	eaton-contactors-dilm-3d-drawing-009.eps
ECAD MODEL	ETN.277007.edz
INSTALLATION INSTRUCTIONS	IL03407014Z2021 09.pdf
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MCAD MODEL	DA-CD-dil m17 38
	<u> </u>

	Meets the product
10.2.7 INSCRIPTIONS	standard's requirements.
10.3 DEGREE OF PROTECTION OF	Does not apply, since the entire switchgear needs to
ASSEMBLIES	be evaluated.
10.4 CLEARANCES AND	Meets the product
CREEPAGE DISTANCES	standard's requirements.
10.5 PROTECTION AGAINST ELECTRIC	Does not apply, since the entire switchgear needs to
SHOCK	be evaluated.
10.6 INCORPORATION OF	Does not apply, since the
SWITCHING DEVICES AND COMPONENTS	entire switchgear needs to be evaluated.
10.7 INTERNAL	
ELECTRICAL CIRCUITS	Is the panel builder's responsibility.
AND CONNECTIONS	· · ·
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
10.9.2 POWER-	· · · · · · · · · · · · · · · · · · ·
FREQUENCY ELECTRIC	Is the panel builder's
STRENGTH	responsibility.
10.9.3 IMPULSE	Is the panel builder's
WITHSTAND VOLTAGE	responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF	Is the panel builder's
INSULATING MATERIAL	responsibility.
	5000 mechanical
OPERATING FREQUENCY	Operations/h (AC
	operated)
POLLUTION DEGREE	3
	Damp heat, cyclic, to IEC 60068-2-30
CLIMATIC PROOFING	Damp heat, constant, to
	IEC 60068-2-78
CONNECTION TO SMARTWIRE-DT	No
RATED IMPULSE	
WITHSTAND VOLTAGE	8000 V AC
(UIMP)	AC-4: Normal AC induction
	motors: starting, plugging,
	reversing, inching
	AC-3: Normal AC induction
UTILIZATION CATEGORY	motors: starting, switch off during running
	AC-1: Non-inductive or
	slightly inductive loads,
	resistance furnaces
CONNECTION	Screw terminals
FRAME SIZE	FS2

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

AMBIENT OPERATING TEMPERATURE - MAX	60 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
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	5 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	3 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	5 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	10 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	15 HP
CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	80 A
CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)	32 A
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	37 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)	88 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	2.1 W
HEAT DISSIPATION CAPACITY PDISS	0 W

HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0.7 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)
ARCING TIME	10 ms
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
SCREWDRIVER SIZE	0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, 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	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	415 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50	415 V

RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX  RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN   DROP-OUT VOLTAGE  OVERVOLTAGE CATEGORY  DUTY FACTOR  EMITTED INTERFERENCE IMMUNITY  LIFESPAN, MECHANICAL PICK-UP VOLTAGE  POWER CONSUMPTION, PICK-UP, 50 HZ  SAFE ISOLATION  SAFE ISOLATION  POWER CONSUMPTION, PICK-UP, 60 HZ  SCREW SIZE  POWER CONSUMPTION, PICK-UP, 60 HZ  SCREW SIZE  POWER CONSUMPTION, PICK-UP, 60 HZ  SCREW SIZE  POWER CONSUMPTION, PICK-UP, 50 HZ  SCREW SIZE  POWER CONSUMPTION, PICK-UP, 60 HZ  SCREW SIZE  POWER CONSUMPTION, PICK-UP, 60 HZ  SCREW SIZE  POWER CONSUMPTION, PICK-UP, 60 HZ  SCREW SIZE  POWER CONSUMPTION, SEALING, 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  POWER CONSUMPTION, SEALING, 50 HZ  7.1 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz  TERMINAL CAPACITY (STRANDED)  SWITCHING CAPACITY (AUXILIARY CONTACTS,  1 A, 250 V DC, (UL/CSA) 1 A, 250 V DC, (UL/CSA) 1 A, 250 V DC, (UL/CSA)	HZ - MIN	
VOLTAGE (US) AT AC, 60 HZ - MIN  PROP-OUT VOLTAGE OVERVOLTAGE CATEGORY  DUTY FACTOR  EMITTED INTERFERENCE INTERFERENCE IMMUNITY  LIFESPAN, MECHANICAL PICK-UP, 50 HZ  SAFE ISOLATION  POWER CONSUMPTION, PICK-UP, 60 HZ  SCREW SIZE  POWER CONSUMPTION, PICK-UP, 60 HZ  POWER CONSUMPTION, PICK-UP, 60 HZ  POWER CONSUMPTION, PICK-UP, 60 HZ  SCREW SIZE  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 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 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 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  SEALING, 60 HZ  TERMINAL CAPACITY  (STRANDED)  SWITCHING CAPACITY  10 A, 600 V AC, (UL/CSA)	RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60	480 V
OVERVOLTAGE CATEGORY  DUTY FACTOR  EMITTED INTERFERENCE IMMUNITY  LIFESPAN, MECHANICAL PICK-UP VOLTAGE  SAFE ISOLATION  SAFE ISOLATION  POWER CONSUMPTION, PICK-UP, 60 HZ  SCREW SIZE  POWER CONSUMPTION, SEALING, 50 HZ  POWER CONSUMPTION, SEALING, 50 HZ  POWER CONSUMPTION, SEALING, 60 HZ  POWER CONSUMPTION, SEALING, 60 HZ  POWER CONSUMPTION, SEALING, 60 HZ  LIFESPAN, MECHANICAL  10,000,000 Operations (AC operated)  1	VOLTAGE (US) AT AC, 60	480 V
CATEGORY  DUTY FACTOR  EMITTED INTERFERENCE IMMUNITY  LIFESPAN, MECHANICAL PICK-UP VOLTAGE  SAFE ISOLATION  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  POWER CONSUMPTION, SEALING, 50 HZ  POWER CONSUMPTION, SEALING, 60 HZ  POWER CONSUMPTION, SEALING, 60 HZ  POWER CONSUMPTION, SEALING, 60 HZ  POWER CONSUMPTION, SEALING, 50 HZ  POWER CONSUMPTION, 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  POWER CONSUMPTION, US, at 60 HZ  TERMINAL CAPACITY (STRANDED)  SWITCHING CAPACITY (STRANDED)  SWITCHING CAPACITY  10 A, 600 V AC, (UL/CSA)	DROP-OUT VOLTAGE	· · · · · · · · · · · · · · · · · · ·
EMITTED INTERFERENCE IMMUNITY  According to EN 60947-1  LIFESPAN, MECHANICAL  PICK-UP VOLTAGE  POWER CONSUMPTION, PICK-UP, 50 HZ  SAFE ISOLATION  POWER CONSUMPTION, PICK-UP, 60 HZ  BEALING, 50 HZ  POWER CONSUMPTION, SEALING, 60 HZ  1 x 16 mm², Main cables  SWITCHING CAPACITY  10 A, 600 V AC, (UL/CSA)		III
INTERFERENCE IMMUNITY  LIFESPAN, MECHANICAL PICK-UP VOLTAGE  POWER CONSUMPTION, PICK-UP, 50 HZ  SAFE ISOLATION  SAFE ISOLATION  POWER CONSUMPTION, PICK-UP, 60 HZ  SCREW SIZE  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,	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  POWER CONSUMPTION, PICK-UP, 60 HZ  SCREW SIZE  POWER CONSUMPTION, PICK-UP, 60 HZ  SCREW SIZE  POWER CONSUMPTION, PICK-UP, 60 HZ  SCREW SIZE  ACCORDING TO THE PROPERTY OF THE	EMITTED INTERFERENCE	According to EN 60947-1
PICK-UP VOLTAGE  POWER CONSUMPTION, PICK-UP, 50 HZ  SAFE ISOLATION  POWER CONSUMPTION, PICK-UP, 50 HZ  SAFE ISOLATION  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, 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  1.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 HZ  TERMINAL CAPACITY (STRANDED)  SWITCHING CAPACITY  1. x 16 mm², Main cables  SWITCHING CAPACITY  1. 0.8, 600 V AC, (UL/CSA)		According to EN 60947-1
POWER CONSUMPTION, PICK-UP, 50 HZ  SAFE ISOLATION  SAFE ISOLATION  SAFE ISOLATION  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  TERMINAL CAPACITY (STRANDED)  SVITCHING CAPACITY  SYMITCHING CAPACITY  SYMITCHING CAPACITY  10 A, 600 V AC, (UL/CSA)	LIFESPAN, MECHANICAL	·
POWER CONSUMPTION, PICK-UP, 50 HZ  SAFE ISOLATION  SAFE ISOLATION  POWER CONSUMPTION, PICK-UP, 60 HZ  SCREW SIZE  POWER CONSUMPTION, PICK-UP, 60 HZ  M5, Terminal screw, Main cables M3.5, Terminal screw, Control circuit 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  TERMINAL CAPACITY (STRANDED)  in a cold state and 1.0 x Us, at 60 Hz  1 x 16 mm², Main cables  SWITCHING CAPACITY 10 A, 600 V AC, (UL/CSA)	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 M3.5, Terminal screw, Control circuit cables M3.5, Terminal screw, Control circuit 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  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  TERMINAL CAPACITY (STRANDED)  SWITCHING CAPACITY  10 A, 600 V AC, (UL/CSA)		in a cold state and 1.0 x
POWER CONSUMPTION, PICK-UP, 60 HZ  M5, Terminal screw, Main cables M3.5, Terminal screw, Control circuit cables  2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz  POWER CONSUMPTION, SEALING, 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 60 Hz  8.7 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  TERMINAL CAPACITY (STRANDED)  SWITCHING CAPACITY 10 A, 600 V AC, (UL/CSA)	SAFE ISOLATION	contacts, According to EN 61140 440 V AC, Between coil and contacts, According to
cables M3.5, Terminal screw, Control circuit 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 60 Hz  8.7 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 10 A, 600 V AC, (UL/CSA)		in a cold state and 1.0 x
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 60 Hz 8.7 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  TY 10 A, 600 V AC, (UL/CSA)	SCREW SIZE	cables M3.5, Terminal screw,
in a cold state and 1.0 x Us, at 60 Hz SEALING, 60 HZ  TERMINAL CAPACITY (STRANDED)  in a cold state and 1.0 x Us, at 60 Hz  1 x 16 mm², Main cables  TO A, 600 V AC, (UL/CSA)		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
(STRANDED) 1 x 16 mm², Main cables  SWITCHING CAPACITY 10 A, 600 V AC, (UL/CSA)		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
		1 x 16 mm², Main cables

GENERAL USE)	
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 16) mm², Main cables 2 x (0.75 - 2.5) mm², Control circuit cables 2 x (0.75 - 10) mm², Main cables 1 x (0.75 - 2.5) mm², Control circuit cables
SHOCK RESISTANCE	10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 3.5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletopmounted, Half-sinusoidal shock 10 ms 5.3 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletopmounted, Half-sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletopmounted, 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 6.9 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 4) mm², Control circuit cables 1 x (0.75 - 16) mm², Main cables 2 x (0.75 - 10) mm², Main cables 2 x (0.75 - 2.5) mm², Control circuit cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	Single 18 - 6, double 18 - 8, Main cables 18 - 14, Control circuit cables

SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	40 A, Maximum motor rating (UL/CSA)
TIGHTENING TORQUE	<ul><li>1.2 Nm, Screw terminals,</li><li>Control circuit cables</li><li>3.2 Nm, Screw terminals,</li><li>Main cables</li></ul>
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	8 A

CURRENT (IE) AT AC-4, 660 V, 690 V	
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 OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	22 ms
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)	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)	10/65 kA, CB, SCCR (UL/CSA) 50/32 A, max. CB, SCCR (UL/CSA) 125/70 A, Class J, max. Fuse, 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) 10/22 kA, CB, SCCR (UL/CSA) 125/70 A, Class J, max. Fuse, SCCR (UL/CSA) 50/32 A, max. CB, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING	
(TYPE 1 COORDINATION) AT 400 V	63 A gG/gL

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 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 REFRIGERATION CONTROL (CSA ONLY)	240 A, LRA 480 V 60 Hz 3phase; (CSA) 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)
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, 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 HZ	10.5 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	12 kW
RATED OPERATIONAL	11 kW

POWER AT AC-3, 690 V, 50 HZ	
ACTUATING VOLTAGE	415 V 50 Hz, 480 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:	



## **Eaton Corporation plc**

Eaton House 30 Pembroke Road Dublin 4, Ireland Eaton.com

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