## Specifications



## Photo is representative





## Eaton 277131

Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 11 kW, 1 N/O, 220 V 50 Hz, 240 V 60 Hz, AC operation, Screw terminals

General specification	ons
PRODUCT NAME	Eaton Moeller® series DILM contactor
CATALOG NUMBER	277131
MODEL CODE	DILM25- 10(220V50HZ,240V60HZ)
EAN	4015082771317
PRODUCT LENGTH/DEPTH	97 mm
PRODUCT HEIGHT	85 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.428 kg
CERTIFICATIONS	IEC/EN 60947-4-1 CE VDE 0660 CSA-C22.2 No. 60947-4-1- 14 CSA Class No.: 2411-03, 3211-04 IEC/EN 60947 UL Category Control No.: NLDX UL CSA File No.: 012528 UL 60947-4-1 UL File No.: E29096 CSA
CATALOG NOTES	Contacts according to EN 50012
GLOBAL CATALOG	277131



Drodust spesification	
Product specification  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-switch- dilm-characteristic- curve.eps
	eaton-contactors- component-dilm- characteristic-curve- 003.eps
DECLARATIONS OF	DA-DC-00004816.pdf
CONFORMITY	DA-DC-00004783.pdf
DRAWINGS	eaton-contactors- mounting-dilm- dimensions-002.eps  eaton-contactors- mounting-dilm- dimensions.eps  eaton-contactors-contact- dimensions-210x202.eps  eaton-contactors- dimensions-210t014.eps  eaton-general-ie-ready- dilm-contactor- standards.eps  eaton-contactors-dilm-3d- drawing-009.eps
ECAD MODEL	ETN.277131.edz
INSTALLATION INSTRUCTIONS	<u>IL03407014Z2021 09.pdf</u>
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MCAD MODEL	DA-CS-dil m17 38  DA-CD-dil m17 38
	2.1 CD 411 11117 30

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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is 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.
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	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	7.5 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	15 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	20 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	4.2 W
HEAT DISSIPATION CAPACITY PDISS	0 W

HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	1.4 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	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	250 A
RATED BREAKING CAPACITY AT 380/400 V	250 A
RATED BREAKING CAPACITY AT 500 V	250 A
RATED BREAKING CAPACITY AT 660/690 V	150 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	220 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50	220 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 UII  DUTY FACTOR  EMITTED INTERFERENCE According to EN 60947-1  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  To the contacts, According to EN 60947-1  ACCORDING TO EN 60947-1  10,000,000 Operations (AC operated)  10,000,000 Operations (AC operated)  22 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  440 V AC, Between coil and contacts, According to EN 61140  440 V AC, Between coil and contacts, According to EN 61140  FOWER CONSUMPTION, STATUM	HZ - MIN	
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, 60 HZ  SAFE ISOLATION  POWER CONSUMPTION, PICK-UP, 60 HZ  SCREW SIZE  POWER CONSUMPTION, PICK-UP, 60 HZ  BY A, Dual-frequency coil and contacts, According to EN 61140  A40 V AC, Between the contacts, According to EN 61140  A40 V AC, Between coil and contacts, According to EN 61140  A57 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz  BY A, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz  AND TERMINAL CAPACITY  TERMINAL CAPACITY  1 x 16 mm², Main cables  SWITCHING CAPACITY  10 A, 600 V AC, (UL/CSA)	RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60	240 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, PICK-UP, 50 HZ  SEALING, 50 HZ  POWER CONSUMPTION, SEALING, 50 HZ  POWER CONSUMPTION, SEALING, 60 HZ  POWER CONSUMPTION, SEALING, 60 HZ  POWER CONSUMPTION, SEALING, 60 HZ  ACCORDING TO ME NO METER ACCORDING TO EN GIOR ACCORDING TO EN GLOR ACCORDING TO EN GONDAL ACCORDING TO EN	RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60	240 V
CATEGORY  DUTY FACTOR  EMITTED INTERFERENCE INTERFERENCE IMMUNITY  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  BY ACCORDING TO SEALING, 50 HZ  BY ACCORDING	DROP-OUT VOLTAGE	· · · · · · · · · · · · · · · · · · ·
EMITTED INTERFERENCE INTERFERENCE IMMUNITY  LIFESPAN, MECHANICAL PICK-UP VOLTAGE  POWER CONSUMPTION, PICK-UP, 50 HZ  SAFE ISOLATION  POWER CONSUMPTION, PICK-UP, 60 HZ  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, SCREW SIZE  POWER CONSUMPTION, PICK-UP, 60 HZ  POWER CONSUMPTION, SCREW SIZE  POWER CONSUMPTION, SCREW SIZE  POWER CONSUMPTION, SEALING, 50 HZ  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, 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)		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  ACCORDING TO THE 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)  52 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 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  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)	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  SAFE ISOLATION  Add V AC, Between the contacts, According to EN 61140  440 V AC, Between coil and contacts, According to EN 61140  FOWER CONSUMPTION, PICK-UP, 60 HZ  BY ABOVE CONSUMPTION, PICK-UP, 60 HZ  SCREW SIZE  M5, Terminal screw, Main cables  M3.5, Terminal screw, Control circuit cables  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  POWER CONSUMPTION, 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)	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  1 x 16 mm², Main cables  T x 16 mm², Main cables  T x 16 mm², Main cables  SWITCHING CAPACITY  (STRANDED)  SWITCHING CAPACITY  10 A, 600 V AC, (UL/CSA)		According to EN 60947-1
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  TERMINAL CAPACITY (STRANDED)  SWITCHING CAPACITY  SYAP A 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 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  2.1 W, 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  1 x 16 mm², Main cables	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  SCREW SIZE  M5, Terminal screw, Main cables M3.5, Terminal screw, Control circuit cables	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  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  8.7 VA, 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  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  8.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz  POWER CONSUMPTION, SEALING, 60 HZ  2.1 W, 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  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  8.7 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 2.1 W, 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  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
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  8.7 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  TERMINAL CAPACITY (STRANDED)  1 x 16 mm², Main cables  TULL TERMINAL CAPACITY (STRANDED)  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 2.1 W, 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)		Us, at 60 Hz 2.1 W, 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)	2 x (0.75 - 2.5) mm², Control circuit cables 1 x (0.75 - 2.5) mm², Control circuit cables 2 x (0.75 - 10) mm², Main cables 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 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 7 g, N/O 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 3.5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms
TERMINAL CAPACITY (SOLID)	2 x (0.75 - 10) mm², Main cables 1 x (0.75 - 16) mm², Main cables 2 x (0.75 - 2.5) mm², Control circuit cables 1 x (0.75 - 4) 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)
TIGHTENING TORQUE	3.2 Nm, Screw terminals, Main cables 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)	350 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	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	15 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	13 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	13 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	13 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	13 A
RATED OPERATIONAL	10 A

CURRENT (IE) AT AC-4, 660 V, 690 V	
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)	25 A
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	8.5 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	11 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	14.5 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	3.5 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	4 kW
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	6 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	6.5 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	7 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	8 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	8.5 kW
RATED OPERATIONAL POWER (NEMA)	11 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. CB, 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) 10/65 kA, CB, SCCR (UL/CSA) 10/100 kA, Fuse, SCCR (UL/CSA) 50/32 A, max. CB, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	125/100 A, Class J, max. Fuse, SCCR (UL/CSA) 50/32 A, max. CB, SCCR (UL/CSA) 10/22 kA, CB, SCCR (UL/CSA) 10/100 kA, Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V	100 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 RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS	40 A (480V 60Hz 3phase, 277V 60Hz 1phase) 40 A (600V 60Hz 3phase, 347V 60Hz 1phase)
SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING	25 A, FLA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 150 A, LRA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA)
SPECIAL PURPOSE RATING OF ELEVATOR CONTROL	17 A, 600 V 60 Hz 3-ph, (UL/CSA) 15.2 A, 240 V 60 Hz 3-ph, (UL/CSA) 10 HP, 480 V 60 Hz 3-ph, (UL/CSA) 15 HP, 600 V 60 Hz 3-ph, (UL/CSA) 14 A, 480 V 60 Hz 3-ph, (UL/CSA) 3 HP, 200 V 60 Hz 3-ph, (UL/CSA) 11 A, 200 V 60 Hz 3-ph, (UL/CSA) 5 HP, 240 V 60 Hz 3-ph, (UL/CSA)
SPECIAL PURPOSE RATING OF REFRIGERATION CONTROL (CSA ONLY)	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) 180 A, LRA 600 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	40 A, 600 V 60 Hz 3phase,

RATING OF TUNGSTEN INCANDESCENT LAMPS	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)	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	15.5 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	17.5 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	14 kW
ACTUATING VOLTAGE	220 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:	



## **Eaton Corporation plc**

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

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