Eaton 239408

Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 37 kW, 110 V 50/60 Hz, AC operation, Screw terminals DILM80(110V50/60HZ)

PRODUCT NAME	Eaton Moeller® series DILM contactor
CATALOG NUMBER	239408
PRODUCT LENGTH/DEPTH	160 mm
PRODUCT HEIGHT	170 mm
PRODUCT WIDTH	90 mm
PRODUCT WEIGHT	2.18 kg
COMPLIANCES	CE Marked
CERTIFICATIONS	IEC 60947-4-1 CSA Std. C22.2 No. 14-05 UL 508 EN 60947-4-1 VDE CSA Class No.: 2411-03, 3211-04 CE CSA IEC/EN 60947 IEC/EN 60947 IUL Category Control No.: NLDX UL CSA File No.: 012528 CSA-C22.2 No. 60947-4-1 14 UL 60947-4-1 UL File No.: E29096 VDE 0660
CATALOG NOTES	Contacts according to EN 50012



AMPERAGE RATING	80A
NUMBER OF POLES	Three-pole
VOLTAGE RATING	110 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.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.

CHARACTERISTIC CURVE	eaton-contactors-switch-dilm-characteristic-curve-002.eps eaton-contactors-switch-dilm-characteristic-curve.eps
DECLARATIONS OF CONFORMITY	eaton-contactor- declaration-of-conformity- uk251235en.pdf
	eaton-dil-contactors- instruction-leaflet- il03407039z.pdf
	eaton-contactors-contact- dilm-wiring-diagram- 003.eps
	eaton-contactors-dilm- dimensions-003.eps
	eaton-contactors-dilm-3d- drawing.eps

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10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to be evaluated.
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to be evaluated.
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	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	3600 mechanical Operations/h (AC operated)
POLLUTION DEGREE	3
	Damp heat, cyclic, to IEC
CLIMATIC PROOFING	60068-2-30 Damp heat, constant, to IEC 60068-2-78
CLIMATIC PROOFING CONNECTION TO SMARTWIRE-DT	60068-2-30 Damp heat, constant, to
CONNECTION TO	60068-2-30 Damp heat, constant, to IEC 60068-2-78
CONNECTION TO SMARTWIRE-DT RATED IMPULSE WITHSTAND VOLTAGE	60068-2-30 Damp heat, constant, to IEC 60068-2-78 No
CONNECTION TO SMARTWIRE-DT RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	60068-2-30 Damp heat, constant, to IEC 60068-2-78 No 8000 V AC AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, switch off
CONNECTION TO SMARTWIRE-DT RATED IMPULSE WITHSTAND VOLTAGE (UIMP) UTILIZATION CATEGORY	60068-2-30 Damp heat, constant, to IEC 60068-2-78 No 8000 V AC AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, switch off during running

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	7.5 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	25 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	15 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	30 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	60 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	75 HP
CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	200 A
CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)	80 A
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	94 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)	225 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	9 W
HEAT DISSIPATION CAPACITY PDISS	0 W

HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	3 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	15 ms
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
SCREWDRIVER SIZE	2, Terminal screw, Control circuit cables, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Control circuit cables, Standard screwdriver
VOLTAGE TYPE	AC
DEGREE OF PROTECTION	IP00
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT	0
NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	3
OPERATING TEMPERATURE - MAX	60 °C
OPERATING TEMPERATURE - MIN	-25 °C
RATED BREAKING CAPACITY AT 220/230 V	800 A
RATED BREAKING CAPACITY AT 380/400 V	800 A
RATED BREAKING CAPACITY AT 500 V	800 A
RATED BREAKING CAPACITY AT 660/690 V	650 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50	110 V

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 - MIN DROP-OUT VOLTAGE OVERVOLTAGE CATEGORY DUTY FACTOR EMITTED INTERFERENCE IMMUNITY According to EN 60947-1 INTERFERENCE IMMUNITY According to EN 60947-1 10,000,000 Operations (AC operated) 7,000,000 Operations (Coil 50/60 Hz) PICK-UP VOLTAGE O.8 - 1.1 V AC x Uc 328 VA, Dual-frequency coil in a cold state and 1.0 x Us FOOWER CONSUMPTION, PICK-UP, 50 HZ SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 60 HZ POWER CONSUMPTION, PICK-UP, 60 HZ 328 VA, Dual-frequency coil in a cold state and 1.0 and contacts, According to EN 61140 690 V AC, Between the contacts, According to EN 61140 690 V AC, Between coil and contacts, According to EN 61140 328 VA, Dual-frequency coil in a cold state and 1.0 x Us 372 VA, Dual-frequency coil in a cold state and 1.0 x Us 372 VA, Dual-frequency coil in a cold state and 1.0 x Us 372 VA, Dual-frequency coil in a cold state and 1.0 x Us 372 VA, Dual-frequency coil in a cold state and 1.0 x Us		
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 - MIN DROP-OUT VOLTAGE OVERVOLTAGE CATEGORY DUTY FACTOR INTERFERENCE IMMUNITY LIFESPAN, MECHANICAL PICK-UP VOLTAGE POWER CONSUMPTION, PICK-UP, 50 HZ SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 60 HZ 110 V 110 V AC operated: 0.6 - 0.3 x UC, AC operated: 0.6 - 0.3 x UC, AC operated 110 V 11	HZ - MAX	
VOLTAGE (US) AT AC, 60 HZ - MAX RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN DROP-OUT VOLTAGE OVERVOLTAGE CATEGORY DUTY FACTOR INTERFERENCE IMMUNITY LIFESPAN, MECHANICAL PICK-UP VOLTAGE POWER CONSUMPTION, PICK-UP, 50 HZ SAFE ISOLATION 110 V AC operated: 0.6 - 0.3 x UC, AC operated 110 V AC operated: 0.6 - 0.3 x UC, AC operated 110 V AC operated: 0.6 - 0.3 x UC, AC operated 110 V AC operated: 0.6 - 0.3 x UC, AC operated 110 V AC operated: 0.6 - 0.3 x UC, AC operated: 0.6 - 0.3 x	VOLTAGE (US) AT AC, 50	110 V
VOLTAGE (US) AT AC, 60 HZ - MIN DROP-OUT VOLTAGE OVERVOLTAGE CATEGORY DUTY FACTOR EMITTED INTERFERENCE IMMUNITY According to EN 60947-1 10,000,000 Operations (AC operated) 7,000,000 Operations (Coil 50/60 Hz) 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 POWER CONSUMPTION, SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 60 HZ POWER CONSUMPTION, PICK-UP, 60 HZ 110 V AC operated: 0.6 - 0.3 x UC, AC operated 100 % EMITTED INTERFERENCE According to EN 60947-1 10,000,000 Operations (AC operated) 7,000,000 Operations (AC operated) 10,000,000 Operatio	VOLTAGE (US) AT AC, 60	110 V
OVERVOLTAGE CATEGORY DUTY FACTOR EMITTED INTERFERENCE IMMUNITY LIFESPAN, MECHANICAL PICK-UP VOLTAGE POWER CONSUMPTION, PICK-UP, 50 HZ SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 60 HZ DUC, AC operated UC, AC operated Subsequence 10,000,000 Operations (AC operated) 7,000,000 Operations (Coil operated) 7,000,000 Operations (Coil operated) 7,000,000 Operations (Coil operated) 7,000,000 Operations (AC operated) 10,000,000 Ope	VOLTAGE (US) AT AC, 60	110 V
DUTY FACTOR DUTY FACTOR EMITTED INTERFERENCE INTERFERENCE IMMUNITY According to EN 60947-1 10,000,000 Operations (AC operated) 7,000,000 Operations (Coil 50/60 Hz) PICK-UP VOLTAGE POWER CONSUMPTION, PICK-UP, 50 HZ SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 50 HZ BAFE ISOLATION ACCORDING TO EN 60947-1 10,000,000 Operations (AC operated) 7,000,000 Operations (Coil 50/60 Hz) 328 VA, Dual-frequency coil in a cold state and 1.0 x Us 690 V AC, Between the contacts, According to EN 61140 690 V AC, Between coil and contacts, According to EN 61140 328 VA, Dual-frequency coil in a cold state and 1.0 x Us POWER CONSUMPTION, PICK-UP, 60 HZ 372 VA, Dual-frequency coil in a cold state and 1.0 x Us 372 VA, Dual-frequency coil in a cold state and 1.0 x Us	DROP-OUT VOLTAGE	•
EMITTED INTERFERENCE INTERFERENCE IMMUNITY According to EN 60947-1 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 328 VA, Dual-frequency coil in a cold state and 1.0 x Us 972 VA, Dual-frequency coil in a cold state and 1.0 x Us 690 V AC, Between the contacts, According to EN 61140 690 V AC, Between coil and contacts, According to EN 61140 690 V AC, Between coil and contacts, According to EN 61140 238 VA, Dual-frequency coil in a cold state and 1.0 x Us 700 V AC, Between coil and contacts, According to EN 61140 710 V AC, Between coil and contacts, According to EN 61140 710 V AC, Between coil and contacts, According to EN 61140 710 V AC, Between coil and contacts, According to EN 61140 710 V AC, Between coil and contacts, According to EN 61140 710 V AC, Between coil and contacts, According to EN 61140 710 V AC, Between coil and contacts, According to EN 61140 710 V AC, Between coil and contacts, According to EN 61140 710 V AC, Between coil and contacts, According to EN 61140 710 V AC, Between coil and contacts, According to EN 61140 710 V AC, Between coil and contacts, According to EN 61140 710 V AC, Between coil and contacts, According to EN 61140 710 V AC, Between coil and contacts, According to EN 61140 710 V AC, Between coil and contacts, According to EN 61140 710 V AC, Between coil and contacts, According to EN 61140 710 V AC, Between coil and contacts, According to EN 61140 710 V AC, Between coil and contacts, According to EN 61140 710 V AC, Between coil and contacts, According to EN 61140		Ш
INTERFERENCE IMMUNITY According to EN 60947-1 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 328 VA, Dual-frequency coil in a cold state and 1.0 x Us 372 VA, Dual-frequency coil in a cold state and 1.0 x Us 690 V AC, Between the contacts, According to EN 61140 690 V AC, Between coil and contacts, According to EN 61140 690 V AC, Between coil and contacts, According to EN 61140 700 V AC, Between coil and contacts, According to EN 61140 700 V AC, Between coil and contacts, According to EN 61140 700 V AC, Between coil and contacts, According to EN 61140 700 V AC, Between coil and contacts, According to EN 61140 700 V AC, Between coil and contacts, According to EN 61140 700 V AC, Between coil and contacts, According to EN 61140 700 V AC, Between coil and contacts, According to EN 61140 700 V AC, Between coil and contacts, According to EN 61140 700 V AC, Between coil and contacts, According to EN 61140 700 V AC, Between coil and contacts, According to EN 61140 700 V AC, Between coil and contacts, According to EN 61140 700 V AC, Between coil and contacts, According to EN 61140 700 V AC, Between coil and contacts, According to EN 61140 700 V AC, Between coil and contacts, According to EN 61140 700 V AC, Between coil and contacts, According to EN 61140 700 V AC, Between coil and contacts, According to EN 61140	DUTY FACTOR	100 %
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 328 VA, Dual-frequency coil in a cold state and 1.0 x Us PICK-UP, 50 HZ 372 VA, Dual-frequency coil in a cold state and 1.0 x Us 690 V AC, Between the contacts, According to EN 61140 690 V AC, Between coil and contacts, According to EN 61140 POWER CONSUMPTION, PICK-UP, 60 HZ 328 VA, Dual-frequency coil in a cold state and 1.0 x Us 328 VA, Dual-frequency coil in a cold state and 1.0 x Us 328 VA, Dual-frequency coil in a cold state and 1.0 x Us 372 VA, Dual-frequency coil in a cold state and 1.0 x Us 372 VA, Dual-frequency coil in a cold state and 1.0 x Us	EMITTED INTERFERENCE	According to EN 60947-1
DICK-UP VOLTAGE PICK-UP VOLTAGE 0.8 - 1.1 V AC x Uc 328 VA, Dual-frequency coil in a cold state and 1.0 x Us PICK-UP, 50 HZ 372 VA, Dual-frequency coil in a cold state and 1.0 x Us 690 V AC, Between the contacts, According to EN 61140 690 V AC, Between coil and contacts, According to EN 61140 POWER CONSUMPTION, PICK-UP, 60 HZ 372 VA, Dual-frequency coil in a cold state and 1.0 x Us 373 VA, Dual-frequency coil in a cold state and 1.0 x Us 374 VA, Dual-frequency coil in a cold state and 1.0 x Us 375 VA, Dual-frequency coil in a cold state and 1.0 x Us 377 VA, Dual-frequency coil in a cold state and 1.0 x Us 378 VA, Dual-frequency coil in a cold state and 1.0 x Us		According to EN 60947-1
POWER CONSUMPTION, PICK-UP, 50 HZ SAFE ISOLATION SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 50 HZ 372 VA, Dual-frequency coil in a cold state and 1.0 x Us 690 V AC, Between the contacts, According to EN 61140 690 V AC, Between coil and contacts, According to EN 61140 328 VA, Dual-frequency coil in a cold state and 1.0 x Us POWER CONSUMPTION, PICK-UP, 60 HZ 372 VA, Dual-frequency coil in a cold state and 1.0 cold state and 1.0	LIFESPAN, MECHANICAL	7,000,000 Operations (Coil
Coil in a cold state and 1.0 x Us 372 VA, Dual-frequency coil in a cold state and 1.0 x Us 690 V AC, Between the contacts, According to EN 61140 690 V AC, Between coil and contacts, According to EN 61140 328 VA, Dual-frequency coil in a cold state and 1.0 x Us 900 V AC, Between coil and contacts, According to EN 61140 328 VA, Dual-frequency coil in a cold state and 1.0 x Us 372 VA, Dual-frequency coil in a cold state and 1.0	PICK-UP VOLTAGE	0.8 - 1.1 V AC x Uc
contacts, According to EN 61140 690 V AC, Between coil and contacts, According to EN 61140 328 VA, Dual-frequency coil in a cold state and 1.0 x Us 372 VA, Dual-frequency coil in a cold state and 1.0		coil in a cold state and 1.0 x Us 372 VA, Dual-frequency coil in a cold state and 1.0
coil in a cold state and 1.0 POWER CONSUMPTION, PICK-UP, 60 HZ 372 VA, Dual-frequency coil in a cold state and 1.0	SAFE ISOLATION	contacts, According to EN 61140 690 V AC, Between coil and contacts, According to
	·	coil in a cold state and 1.0 x Us 372 VA, Dual-frequency coil in a cold state and 1.0
1 mA (with actuation of A1 RESIDUAL CURRENT - A2 by the electronics with "0" signal)	RESIDUAL CURRENT	- A2 by the electronics with
M3.5, Terminal screw, Control circuit cables 5 mm AF, Hexagon socket- head spanner, Terminal screw, Main cables M10, Terminal screw, Main	SCREW SIZE	Control circuit cables 5 mm AF, Hexagon socket- head spanner, Terminal

	sinusoidal shock 10 ms
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 4) mm ² , Control circuit cables 2 x (0.75 - 2.5) mm ² , Control circuit cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	Single 83/0, double 82/0, Main cables 18 - 14, Control circuit cables
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	125 A, Maximum motor rating (UL/CSA)
TIGHTENING TORQUE	1.2 Nm, Screw terminals, Control circuit cables 14 Nm, Screw terminals, Main 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)	1120 A
RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	110 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	80 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	80 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	80 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	80 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	65 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	40 A
RATED OPERATIONAL	40 A

CURRENT (IE) AT AC-4, 400 V	
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	40 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	40 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	27 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V	110 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V	70 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V	110 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	80 A
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	27.5 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	37 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	48 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	11.5 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	13 kW
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	20 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	24 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	25 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	29 kW

RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	26 kW
RATED OPERATIONAL POWER (NEMA)	44.7 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RESISTANCE PER POLE	0.6 mΩ
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	5.8 W
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	10 mm
STRIPPING LENGTH (MAIN CABLE)	24 mm
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	20 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	14 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	14 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	9 ms
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	10 kA, 600 A max. fuse, SCCR (UL/CSA) 10 kA, 600 A max. CB, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)	100 kA, 300 A CLASS J max. fuse, SCCR (UL/CSA) 30 kA, 600 A max. fuse, SCCR (UL/CSA) 65 kA, 250 A max. CB, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	100 kA, 300 A CLASS J max. fuse, SCCR (UL/CSA) 30 kA, 600 A max. fuse, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION)	250 A gG/gL

AT 400 V	
SUITABLE FOR	Also motors with efficiency class IE3
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V	200 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V	160 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V	160 A gG/gL
SPECIAL PURPOSE RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS	100 A (480V 60Hz 3phase, 277V 60Hz 1phase) 100 A (600V 60Hz 3phase, 347V 60Hz 1phase)
SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING	80 A, FLA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 480 A, LRA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA)
SPECIAL PURPOSE RATING OF ELEVATOR CONTROL	25 HP, 240 V 60 Hz 3-ph, (UL/CSA) 60 HP, 600 V 60 Hz 3-ph, (UL/CSA) 20 HP, 200 V 60 Hz 3-ph, (UL/CSA) 65 A, 480 V 60 Hz 3-ph, (UL/CSA) 62 A, 600 V 60 Hz 3-ph, (UL/CSA) 50 HP, 480 V 60 Hz 3-ph, (UL/CSA) 62.1 A, 200 V 60 Hz 3-ph, (UL/CSA) 68 A, 240 V 60 Hz 3-ph, (UL/CSA)
SPECIAL PURPOSE RATING OF REFRIGERATION CONTROL (CSA ONLY)	420 A, LRA 600 V 60 Hz 3phase; (CSA) 70 A, FLA 600 V 60 Hz 3phase; (CSA) 90 A, FLA 480 V 60 Hz 3phase; (CSA) 540 A, LRA 480 V 60 Hz 3phase; (CSA)
SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING	100 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 100 A, 600 V 60 Hz 3phase,

SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS OPERATING TEMPERATURE CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT AC, 50		
SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS OPERATING TEMPERATURE CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE ALTITUDE Max. 2000 m OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE A		·
TEMPERATURE CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE ALTITUDE OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX	RATING OF TUNGSTEN	277 V 60 Hz 1phase, (UL/CSA) 100 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase,
THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE 110 V 50/60 HZ ALTITUDE Max. 2000 m OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT AC, 50 HZ - MAX	·	-25° to 60°C
THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE 110 V 50/60 HZ ALTITUDE Max. 2000 m OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT 230 V	THERMAL CURRENT ITH	110 A
THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE 110 V 50/60 HZ ALTITUDE Max. 2000 m OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT AC, 50 HZ - MAX	THERMAL CURRENT ITH	98 A
POWER AT AC-3, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE ALTITUDE OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT 230 V OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT 230 V	THERMAL CURRENT ITH	90 A
POWER AT AC-3, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE ALTITUDE OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX	POWER AT AC-3, 440 V, 50	51 kW
POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE ALTITUDE Max. 2000 m OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT 230 V	POWER AT AC-3, 500 V, 50	58 kW
ALTITUDE Max. 2000 m OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT 230 V	POWER AT AC-3, 690 V, 50	63 kW
OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT 230 V	ACTUATING VOLTAGE	110 V 50/60 Hz
AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT 230 V	ALTITUDE	Max. 2000 m
AC, 50 HZ - MAX OPERATING VOLTAGE AT		230 V
230 V		690 V
AC, 60 HZ - MIN	OPERATING VOLTAGE AT AC, 60 HZ - MIN	230 V
OPERATING VOLTAGE AT AC, 60 HZ - MAX		690 V

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
:	



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