Specifications



Photo is representative





Eaton 239484

Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 45 kW, 24 V 50/60 Hz, AC operation, Screw terminals

General specification	ns
PRODUCT NAME	Eaton Moeller® series DILM contactor
CATALOG NUMBER	239484
MODEL CODE	DILM95(24V50/60HZ)
EAN	4015082394844
PRODUCT LENGTH/DEPTH	160 mm
PRODUCT HEIGHT	170 mm
PRODUCT WIDTH	90 mm
PRODUCT WEIGHT	2.18 kg
COMPLIANCES	CE Marked
CERTIFICATIONS	UL 508 EN 60947-4-1 IEC 60947-4-1 CSA Std. C22.2 No. 14-05 VDE UL 60947-4-1 CSA File No.: 012528 IEC/EN 60947 UL File No.: E29096 UL Category Control No.: NLDX CSA-C22.2 No. 60947-4-1- 14 CSA Class No.: 2411-03, 3211-04 CE VDE 0660 UL CSA IEC/EN 60947-4-1
CATALOG NOTES	Contacts according to EN 50012
GLOBAL CATALOG	239484



Product specification	S
AMPERAGE RATING	95A
NUMBER OF POLES	Three-pole
VOLTAGE RATING	24 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	Does not apply, since the entire switchgear needs to
IMPACT	be evaluated.

Resources	
	eaton-product-overview- for-machinery-catalogue- ca08103003zen-en-us.pdf
CATALOGS	SmartWire-DT Catalog
	Product Range Catalog Switching and protecting motors
	eaton-contactors-switch- dilm-characteristic- curve.eps
CHARACTERISTIC CURVE	eaton-contactors- component-dilm- characteristic-curve- 003.eps
	eaton-contactors-short- time-loading-dilm- characteristic-curve- 002.eps
	eaton-contactors-switch- dilm-characteristic-curve- 002.eps
DECLARATIONS OF CONFORMITY	DA-DC-00004818.pdf DA-DC-00004781.pdf
	eaton-contactors-dilm-
	dimensions-003.eps
	eaton-contactors- mounting-dilm- dimensions.eps
	eaton-contactors- mounting-dilm- dimensions-002.eps
DRAWINGS	eaton-contactors-dilm- dimensions-011.eps
	eaton-contactors-dilm-3d-drawing-013.eps
	eaton-general-ie-ready- dilm-contactor- standards.eps
	eaton-contactors-dilm-3d- drawing.eps
ECAD MODEL	ETN.239484.edz
INSTALLATION INSTRUCTIONS	eaton-dil-contactors- instruction-leaflet- il03407039z.pdf

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	3600 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	FS4

INSTALLATION VIDEOS	WIN-WIN with push-in technology
MCAD MODEL	DA-CS-dil m80 170 DA-CD-dil m80 170
SYSTEM OVERVIEW	eaton-contactors-dilm- contactor-system- overview.eps
WIRING DIAGRAMS	eaton-contactors-contact- dilm-wiring-diagram- 003.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	7.5 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	30 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	40 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	75 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	100 HP
CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	250 A
CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)	100 A
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	115 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)	275 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	12.6 W
HEAT DISSIPATION CAPACITY PDISS	0 W

HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	4.2 W
APPLICATION	Contactors for Motors
PRODUCT CATEGORY	Contactors
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
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	950 A
RATED BREAKING CAPACITY AT 380/400 V	950 A
RATED BREAKING CAPACITY AT 500 V	950 A
RATED BREAKING CAPACITY AT 660/690 V	800 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50	24 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 INTERFERENCE IMMUNITY According to EN 60947-1 INTERFERENCE IMMUNITY According to EN 60947-1 INTERFERENCE IMMUNITY 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 372 VA, Dual-frequency coil in a cold state and 1.0 x Us FON V AC, Between the contacts, According to EN 690 V AC, Between the contacts, According to EN 690 V AC, Between the contacts, According to EN 69140 372 VA, Dual-frequency coil in a cold state and 1.0 x Us FON V AC, Between the contacts, According to EN 61140 372 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 1 mA (with actuation of A1 - A2 by the electronics with "0" signal) M3.5, Terminal screw, Control circuit cables 5 mm AF, Hexagon socket- head spanner, Terminal screw, Main cables M10, Terminal screw, Main Control circuit cables S mm AF, Hexagon socket- head spanner, Terminal screw, Main cables M10, Terminal screw, Main		
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 LIFESPAN, MECHANICAL LIFESPAN, MECHANICAL 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 ACCORD SUMPTION, PICK-UP, 60 HZ TABLE SUPPLY VOLTAGE ACCORD SUMPTION, PICK-UP, 60 HZ ACCORD SUMPTION, PICK-UP, 60 HZ TABLE SUPPLY ACCORD SUMPTION, PICK-UP, 60 HZ ACCORD SUMPTION, PICK-UP, 60 HZ ACCORD SUMPTION, PICK-UP, 60 HZ TABLE SUPPLY ACCORD SUMPTION, PICK-UP, 60 HZ ACCORD SUPPLY ACCORD SUMPTION, PICK-UP, 60 HZ ACCORD SUPPLY ACCOR	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 According to EN 60947-1 INTERFERENCE IMMUNITY According to EN 60947-1 7,000,000 Operations (Coil 50/60 Hz) 10,000,000 Operations (AC operated) 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 FOOVER CONSUMPTION, PICK-UP, 50 HZ SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 60 HZ POWER CONSUMPTION, PICK-UP, 60 HZ T MA (With actuation of A1 - A2 by the electronics with "0" signal) M3.5, Terminal screw, Control circuit cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables	VOLTAGE (US) AT AC, 50	24 V
VOLTAGE (US) AT AC, 60 HZ - MIN 24 V DROP-OUT VOLTAGE AC operated: 0.6 - 0.3 x UC, AC operated OVERVOLTAGE CATEGORY III DUTY FACTOR 100 % EMITTED INTERFERENCE IMMUNITY According to EN 60947-1 INTERFERENCE IMMUNITY According to EN 60947-1 PICK-UP VOLTAGE 7,000,000 Operations (Coil 50/60 Hz) 10,000,000 Operations (AC operated) PICK-UP VOLTAGE 328 VA, Dual-frequency coil in a cold state and 1.0 x Us POWER CONSUMPTION, PICK-UP, 50 HZ 372 VA, Dual-frequency coil in a cold state and 1.0 x Us SAFE ISOLATION 690 V AC, Between coil and contacts, According to EN 61140 690 V AC, Between the 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 328 VA, Dual-frequency coil in a cold state and 1.0 x Us RESIDUAL CURRENT 1 mA (with actuation of A1 - A2 by the electronics with "0" signal) M3.5, Terminal screw, Control circuit cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables	VOLTAGE (US) AT AC, 60	24 V
OVERVOLTAGE CATEGORY DUTY FACTOR EMITTED INTERFERENCE IMMUNITY LIFESPAN, MECHANICAL LIFESPAN, MECHANICAL PICK-UP VOLTAGE SAFE ISOLATION SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 60 HZ SCREW SIZE UC, AC operated UC, AC operated UC, AC operated UII LIFESPAN, MECHANICAL According to EN 60947-1 According to EN 60947-1 7,000,000 Operations (Coil 50/60 Hz) 10,000,000 Operations (AC operated) 2328 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 328 VA, Dual-frequency coil in a cold state and 1.0 x Us 1 mA (with actuation of A1 - A2 by the electronics with "0" signal) M3.5, Terminal screw, Control circuit cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables	VOLTAGE (US) AT AC, 60	24 V
DUTY FACTOR DUTY FACTOR EMITTED INTERFERENCE IMMUNITY According to EN 60947-1 INTERFERENCE IMMUNITY According to EN 60947-1 7,000,000 Operations (Coil 50/60 Hz) 10,000,000 Operations (AC operated) PICK-UP VOLTAGE POWER CONSUMPTION, PICK-UP, 50 HZ SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 60 HZ POWER CONSUMPTION, PICK-UP, 60 HZ ACCORDING TO EN 60947-1 ACCO	DROP-OUT VOLTAGE	•
INTERFERENCE IMMUNITY According to EN 60947-1 INTERFERENCE IMMUNITY According to EN 60947-1 7,000,000 Operations (Coil 50/60 Hz) 10,000,000 Operations (AC operated) 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 coil and contacts, According to EN 61140 690 V AC, Between the contacts, According to EN 61140 690 V AC, Between the 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 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 1 mA (with actuation of A1 - A2 by the electronics with "0" signal) M3.5, Terminal screw, Control circuit cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables		Ш
INTERFERENCE IMMUNITY According to EN 60947-1 7,000,000 Operations (Coil 50/60 Hz) 10,000,000 Operations (AC operated) 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 coil and contacts, According to EN 61140 690 V AC, Between the 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 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 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 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 376 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 379 VA, Dual-frequency coil in a cold state and 1.0 x Us 370 VA, Dual-frequency coil in a cold state and 1.0 x Us 371 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	DUTY FACTOR	100 %
IMMUNITY According to EN 60947-1 7,000,000 Operations (Coil 50/60 Hz) 10,000,000 Operations (AC operated) PICK-UP VOLTAGE POWER CONSUMPTION, PICK-UP, 50 HZ SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 50 HZ SAFE ISOLATION According to EN 60947-1 7,000,000 Operations (AC operated) 328 VA, Dual-frequency coil in a cold state and 1.0 x Us 690 V AC, Between coil and contacts, According to EN 61140 690 V AC, Between the contacts, According to EN 61140 372 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 329 VA, Dual-frequency coil in a cold state and 1.0 x Us 329 VA, Dual-frequency coil in a cold state and 1.0 x Us 329 VA, Dual-frequency coil in a cold state and 1.0 x Us 329 VA, Dual-frequency coil in a cold state and 1.0 x Us 329 VA, Dual-frequency coil in a cold state and 1.0 x Us 329 VA, Dual-frequency coil in a cold state and 1.0 x Us 329 VA, Dual-frequency coil in a cold state and 1.0 x Us 329 VA, Dual-frequency coil in a cold state and 1.0 x Us 329 VA, Dual-frequency coil in a cold state and 1.0 x Us 329 VA, Dual-frequency coil in a cold state and 1.0 x Us 329 VA, Dual-frequency coil in a cold state and 1.0 x Us 329 VA, Dual-frequency coil in a cold state and 1.0 x Us 329 VA, Dual-frequency coil in a cold state and 1.0 x Us 329 VA, Dual-frequency coil in a cold state and 1.0 x Us 329 VA, Dual-frequency coil in a cold state and 1.0 x Us 329 VA, Dual-frequency coil in a cold state and 1.0 x Us	EMITTED INTERFERENCE	According to EN 60947-1
LIFESPAN, MECHANICAL 50/60 Hz) 10,000,000 Operations (AC operated) 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 coil and contacts, According to EN 61140 690 V AC, Between the contacts, According to EN 61140 4090 V AC, Between the contacts, According to EN 61140 772 VA, Dual-frequency coil in a cold state and 1.0 x Us 8328 VA, Dual-frequency coil in a cold state and 1.0 x Us 1 mA (with actuation of A1 - A2 by the electronics with "0" signal) 8328 VA, Dual-frequency coil in a cold state and 1.0 x Us 1 mA (with actuation of A1 - A2 by the electronics with "0" signal) 8335, Terminal screw, Control circuit cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables		According to EN 60947-1
POWER CONSUMPTION, PICK-UP, 50 HZ SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 50 HZ SAFE ISOLATION SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 60 HZ RESIDUAL CURRENT SCREW SIZE 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 1 mA (with actuation of A1 - A2 by the electronics with "0" signal) M3.5, Terminal screw, Control circuit cables 5 mm AF, Hexagon socket- head spanner, Terminal screw, Main cables	LIFESPAN, MECHANICAL	50/60 Hz) 10,000,000 Operations (AC
POWER CONSUMPTION, PICK-UP, 50 HZ SAFE ISOLATION SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 60 HZ POWER CONSUMPTION, PICK-UP, 60 HZ RESIDUAL CURRENT Coil in a cold state and 1.0 x Us coil in a cold state and 1.0 x Us 690 V AC, Between coil and contacts, According to EN 61140 690 V AC, Between the contacts, According to EN 61140 372 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 1 mA (with actuation of A1 - A2 by the electronics with "0" signal) M3.5, Terminal screw, Control circuit cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables	PICK-UP VOLTAGE	0.8 - 1.1 V AC x Uc
and contacts, According to EN 61140 690 V AC, Between the contacts, According to EN 61140 372 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 1 mA (with actuation of A1 - A2 by the electronics with "0" signal) M3.5, Terminal screw, Control circuit cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables		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 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 1 mA (with actuation of A1 - A2 by the electronics with "0" signal) M3.5, Terminal screw, Control circuit cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables	SAFE ISOLATION	and contacts, According to EN 61140 690 V AC, Between the contacts, According to EN
- A2 by the electronics with "0" signal) M3.5, Terminal screw, Control circuit cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables		coil in a cold state and 1.0 x Us 328 VA, Dual-frequency coil in a cold state and 1.0
SCREW SIZE Control circuit cables 5 mm AF, Hexagon socket- head spanner, Terminal screw, Main cables	RESIDUAL CURRENT	- A2 by the electronics with
	SCREW SIZE	Control circuit cables 5 mm AF, Hexagon socket- head spanner, Terminal screw, Main cables

TERMINAL CAPACITY (SOLID)	2 x (0.75 - 2.5) mm ² , Control circuit cables 1 x (0.75 - 4) 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 cables14 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)	1330 A
RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	130 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	95 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	95 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	95 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	95 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	80 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	50 A
RATED OPERATIONAL CURRENT (IE) AT AC-4,	50 A

400 V	
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	50 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	50 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	37 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)	95 A
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	32 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	45 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	57 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	16 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	17 kW
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	26 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	30 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	32 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	36 kW

POWER AT AC-4, 660/690 V, 50 HZ	
RATED OPERATIONAL POWER (NEMA)	55 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)	600 A, max. CB, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA) 600 A, max. Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)	30/100 kA, Fuse, SCCR (UL/CSA) 65 kA, CB, SCCR (UL/CSA) 300/300 A, Class J, max. Fuse, SCCR (UL/CSA) 250 A, max. CB, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	350 A, max. CB, SCCR (UL/CSA) 30/100 kA, Fuse, SCCR (UL/CSA) 30 kA, CB, SCCR (UL/CSA) 300/300 A, Class J, max.

	Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V	250 A gG/gL
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 (600V 60Hz 3phase, 347V 60Hz 1phase) 100 A (480V 60Hz 3phase, 277V 60Hz 1phase)
SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING	95 A, FLA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 570 A, LRA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA)
SPECIAL PURPOSE RATING OF ELEVATOR CONTROL	80 A, 240 V 60 Hz 3-ph, (UL/CSA) 20 HP, 200 V 60 Hz 3-ph, (UL/CSA) 77 A, 600 V 60 Hz 3-ph, (UL/CSA) 62.1 A, 200 V 60 Hz 3-ph, (UL/CSA) 30 HP, 240 V 60 Hz 3-ph, (UL/CSA) 60 HP, 480 V 60 Hz 3-ph, (UL/CSA) 77 A, 480 V 60 Hz 3-ph, (UL/CSA) 75 HP, 600 V 60 Hz 3-ph, (UL/CSA)
SPECIAL PURPOSE RATING OF REFRIGERATION CONTROL (CSA ONLY)	90 A, FLA 480 V 60 Hz 3phase; (CSA) 420 A, LRA 600 V 60 Hz 3phase; (CSA) 70 A, FLA 600 V 60 Hz 3phase; (CSA) 540 A, LRA 480 V 60 Hz 3phase; (CSA)

SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING	100 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 100 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)
SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS	100 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 100 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)
OPERATING TEMPERATURE	-25° to 60°C
CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	130 A
CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	125 A
CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)	110 A
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	60 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	70 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	75 kW
ACTUATING VOLTAGE	24 V 50/60 Hz
ALTITUDE	Max. 2000 m
OPERATING VOLTAGE AT AC, 50 HZ - MIN	230 V
OPERATING VOLTAGE AT AC, 50 HZ - MAX	690 V
OPERATING VOLTAGE AT AC, 60 HZ - MIN	230 V
OPERATING VOLTAGE AT AC, 60 HZ - MAX	690 V

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



Eaton Corporation plc

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