Eaton 235910

Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 37 kW, 240 V 50 Hz, AC operation, Screw terminals DILM80(240V50HZ)

PRODUCT NAME	Eaton Moeller® series DILM contactor
CATALOG NUMBER	235910
PRODUCT LENGTH/DEPTH	160 mm
PRODUCT HEIGHT	170 mm
PRODUCT WIDTH	90 mm
PRODUCT WEIGHT	2.18 kg
CERTIFICATIONS	IEC/EN 60947 CSA File No.: 012528 IEC/EN 60947-4-1 CE UL 60947-4-1 UL File No.: E29096 CSA-C22.2 No. 60947-4-1-14 VDE 0660 UL CSA Class No.: 2411-03, 3211-04 UL Category Control No.: NLDX CSA
CATALOG NOTES	Contacts according to EN 50012



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.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
10.3 DEGREE OF PROTECTION OF	Does not apply, since the entire switchgear needs to

CHARACTERISTIC CURVE	eaton-contactors-switch- dilm-characteristic-curve- 002.eps
	eaton-contactors-switch- dilm-characteristic- curve.eps
	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

ASSEMBLIES	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	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.
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-3: Normal AC induction motors: starting, switch off during running AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-1: Non-inductive or slightly inductive loads, resistance furnaces
CONNECTION	Screw terminals
FRAME SIZE	FS4
AMBIENT OPERATING TEMPERATURE - MAX	60 °C
AMBIENT OPERATING	-25 °C

TEMPERATURE - MIN	
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	0.8 x 5.5/1 x 6 mm, Terminal screw, Control circuit cables, Standard screwdriver 2, Terminal screw, Control circuit cables, Pozidriv 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
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 HZ - MAX	240 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	240 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	0 V

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 CONSUMPTION, PICK-UP, 50 HZ SAFE ISOLATION CONSUMPTION, PICK-UP, 60 HZ CONSUMPTION, PICK-UP, 60 HZ SCREW SIZE CONSUMPTION, PICK-UP, 60 HZ SCREW SIZE CONSUMPTION, PICK-UP, 60 HZ CON		
OVERVOLTAGE CATEGORY DUTY FACTOR EMITTED INTERFERENCE IMMUNITY LIFESPAN, MECHANICAL POWER CONSUMPTION, PICK-UP, 60 HZ SEREISOLATION SERIOLAL CURRENT SCREW SIZE CONSUMPTION, SEALING, 50 HZ POWER CONSUMPTION, SEALING, 50 HZ POWER CONSUMPTION, SEALING, 50 HZ POWER CONSUMPTION, SEALING, 60 HZ POWER CONSUMPTION, SEALING, 50 HZ POWER CONSUMPTION, SEALING, 60 HZ POWER CONSUMPTION, SEALING, 60 HZ TERMINAL CAPACITY 1 mA (with actuation of A1 - A2 by the electronics with "0" signal) M3.5, Terminal screw, Control circuit cables M10, Terminal screw, Main cables 5.8 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 26 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz SEALING, 60 HZ TERMINAL CAPACITY 1 x (16 - 70) mm², Main TERMINAL CAPACITY 1 x (16 - 70) mm², Main	VOLTAGE (US) AT AC, 60	0 V
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 RESIDUAL CURRENT SCREW SIZE POWER CONSUMPTION, POWER CONSUMPTION, PICK-UP, 60 HZ SCREW SIZE POWER CONSUMPTION, POWER CONSUMPTION, PICK-UP, 60 HZ SCREW SIZE DOWER CONSUMPTION, POWER CONSUMPTION, PICK-UP, 60 HZ SCREW SIZE DOWER CONSUMPTION, CONTROL CITCUIT CABLES M10, TERMINAL CAPACITY POWER CONSUMPTION, SEALING, 50 HZ 1 mA (with actuation of A1 - A2 by the electronics with "0" signal) SCREW SIZE SCREW SIZE DOWER CONSUMPTION, SEALING, 50 HZ 1 m A (with actuation of A1 - A2 by the electronics with "0" signal) M3.5, Terminal screw, Control circuit cables M10, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 30 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 26 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 27 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz SEALING, 60 HZ TERMINAL CAPACITY 1 x (16 - 70) mm², Main	DROP-OUT VOLTAGE	•
EMITTED INTERFERENCE INTERFERENCE IMMUNITY LIFESPAN, MECHANICAL PICK-UP VOLTAGE POWER CONSUMPTION, PICK-UP, 50 HZ SAFE ISOLATION SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 60 HZ SERENCE IMMUNITY According to EN 60947-1 10,000,000 Operations (AC operated) 10,000,000 Operations (AC operated) 310 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 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 1 mA (with actuation of A1 - A2 by the electronics with "0" signal) M3.5, Terminal screw, Control circuit cables M10, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon		III
INTERFERENCE IMMUNITY LIFESPAN, MECHANICAL PICK-UP VOLTAGE O.8 - 1.1 V AC x Uc 310 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 50 HZ SAFE ISOLATION SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 60 HZ RESIDUAL CURRENT SCREW SIZE SCREW SIZE POWER CONSUMPTION, SEALING, 50 HZ POWER CONSUMPTION, 2010 in a cold state and 1.0 x Us, at 50 Hz SCREW SIZE SCREW SIZE DOWN AC, Between the contacts, According to EN 61140 845 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 1 mA (with actuation of A1 - A2 by the electronics with "0" signal) M3.5, Terminal screw, Control circuit cables M10, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon socke	DUTY FACTOR	100 %
LIFESPAN, MECHANICAL PICK-UP VOLTAGE POWER CONSUMPTION, PICK-UP, 50 HZ SAFE ISOLATION SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 60 HZ SAFE ISOLATION POWER CONSUMPTION, PICK-UP, 60 HZ SEREW SIZE SCREW SIZE POWER CONSUMPTION, SEALING, 50 HZ POWER CONSUMPTION, SEALING, 60 HZ POWER CONSUMPTION, SEALING, 60 HZ POWER CONSUMPTION, SEALING, 60 HZ ACCORDING TO SEALING, 60 HZ 1 mA (with actuation of A1 - A2 by the electronics with "0" signal) M3.5, Terminal screw, Control circuit cables M10, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cab	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 POWER CONSUMPTION, PICK-UP, 60 HZ POWER CONSUMPTION, PICK-UP, 60 HZ RESIDUAL CURRENT SCREW SIZE POWER CONSUMPTION, SEALING, 50 HZ POWER CONSUMPTION, SEALING, 60 HZ TERMINAL CAPACITY 1 x (16 - 70) mm², Main 210 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 5.8 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 5.8 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 26 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 1 x (16 - 70) mm², Main		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, 2016 in a cold state and 1.0 x Us, at 50 Hz POWER CONSUMPTION, 2016 in a cold state and 1.0 x Us, at 50 HZ POWER CONSUMPTION, Control circuit cables M10, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5.8 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz POWER CONSUMPTION, SEALING, 50 HZ 1 x (16 - 70) mm², Main TERMINAL CAPACITY 1 x (16 - 70) mm², Main	LIFESPAN, MECHANICAL	•
POWER CONSUMPTION, PICK-UP, 50 HZ SAFE ISOLATION SAFE ISOLATION SAFE ISOLATION COII in a cold state and 1.0 x Us, at 50 Hz 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 RESIDUAL CURRENT A with actuation of A1 - A2 by the electronics with "0" signal) M3.5, Terminal screw, Control circuit cables M10, Terminal screw, Main cables SCREW SIZE Control circuit cables M10, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5.8 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 26 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz POWER CONSUMPTION, Us, at 50 Hz POWER CONSUMPTION, Us, at 60 Hz 5.8 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 5.8 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz TERMINAL CAPACITY 1 x (16 - 70) mm², Main	PICK-UP VOLTAGE	0.8 - 1.1 V AC x Uc
SAFE ISOLATION and contacts, According to EN 61140 690 V AC, Between the contacts, According to EN 61140 POWER CONSUMPTION, PICK-UP, 60 HZ RESIDUAL CURRENT 1 mA (with actuation of A1 - A2 by the electronics with "0" signal) M3.5, Terminal screw, Control circuit cables M10, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5.8 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz POWER CONSUMPTION, SEALING, 50 HZ 30 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 5.8 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 5.8 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz TERMINAL CAPACITY 1 x (16 - 70) mm², Main		coil in a cold state and 1.0
reconsumption, pick-up, 60 Hz RESIDUAL CURRENT RESIDUAL CURRENT 1 mA (with actuation of A1 - A2 by the electronics with "0" signal) M3.5, Terminal screw, Control circuit cables M10, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5.8 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 1 x (16 - 70) mm², Main	SAFE ISOLATION	and contacts, According to EN 61140 690 V AC, Between the contacts, According to EN
RESIDUAL CURRENT - A2 by the electronics with "0" signal) M3.5, Terminal screw, Control circuit cables M10, Terminal screw, Main cables 5 mm AF, Hexagon sockethead spanner, Terminal screw, Main cables 5.8 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz POWER CONSUMPTION, SEALING, 50 HZ 30 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 30 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 5.8 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz TERMINAL CAPACITY 1 x (16 - 70) mm², Main		coil in a cold state and 1.0
SCREW SIZE Control circuit cables M10, Terminal screw, Main cables 5 mm AF, Hexagon socket- head spanner, Terminal screw, Main cables 5.8 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz POWER CONSUMPTION, SEALING, 50 HZ OUS, at 50 Hz 30 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 30 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 5.8 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz TERMINAL CAPACITY 1 x (16 - 70) mm², Main	RESIDUAL CURRENT	- A2 by the electronics with
POWER CONSUMPTION, SEALING, 50 HZ Downward SEALING, 50 HZ POWER CONSUMPTION, SEALING, 60 HZ TERMINAL CAPACITY In a cold state and 1.0 x Us, at 50 Hz 30 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 5.8 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 1 x (16 - 70) mm², Main	SCREW SIZE	Control circuit cables M10, Terminal screw, Main cables 5 mm AF, Hexagon socket- head spanner, Terminal
in a cold state and 1.0 x Us, at 60 Hz SEALING, 60 HZ 5.8 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz TERMINAL CAPACITY 1 x (16 - 70) mm², Main		in a cold state and 1.0 x Us, at 50 Hz 26 VA, Dual-frequency coil in a cold state and 1.0 x
		in a cold state and 1.0 x Us, at 60 Hz 5.8 W, Dual-frequency coil in a cold state and 1.0 x

	2 x (16 - 50) mm², Main cables
TERMINAL CAPACITY (COPPER BAND)	2 x (6 x 16 x 0.8) mm (Number of segments x width x thickness), Main cables
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (0.75 - 2.5) mm², Control circuit cables 2 x (10 - 50) mm², Main cables 1 x (10 - 70) mm², Main cables 1 x (0.75 - 2.5) mm², Control circuit cables
SHOCK RESISTANCE	7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Halfsinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Halfsinusoidal shock 10 ms 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Halfsinusoidal shock 10 ms 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Halfsinusoidal 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)	18 - 14, Control circuit cables Single 83/0, double 82/0, Main cables
	cables Single 83/0, double

	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 CURRENT (IE) AT AC-4, 400 V	40 A
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	10 mm

(CONTROL CIRCUIT CABLE)	
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) 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)	160 A gG/gL

AT 690 V	
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	480 A, LRA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 80 A, FLA 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) 68 A, 240 V 60 Hz 3-ph, (UL/CSA) 62 A, 600 V 60 Hz 3-ph, (UL/CSA) 62.1 A, 200 V 60 Hz 3-ph, (UL/CSA) 50 HP, 480 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) 60 HP, 600 V 60 Hz 3-ph, (UL/CSA)
SPECIAL PURPOSE RATING OF REFRIGERATION CONTROL (CSA ONLY)	420 A, LRA 600 V 60 Hz 3phase; (CSA) 540 A, LRA 480 V 60 Hz 3phase; (CSA) 90 A, FLA 480 V 60 Hz 3phase; (CSA) 70 A, FLA 600 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, 347 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)
CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	110 A
CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	98 A

CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)	90 A
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	51 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	58 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	63 kW
ACTUATING VOLTAGE	240 V 50 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

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