Eaton 000642

Eaton Moeller® series DILEM Contactor, 100 V 50Hz, 100-110 V 60Hz, 3 pole, 380 V 400 V, 4 kW, Contacts N/O = Normally open= 1 N/O, Screw terminals, AC operation

PRODUCT NAME	Eaton Moeller® series DILEM Mini contactor
CATALOG NUMBER	000642
PRODUCT LENGTH/DEPTH	52 mm
PRODUCT HEIGHT	58 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.17 kg
CERTIFICATIONS	IEC/EN 60947 UL UL Category Control No.: NLDX CE CSA Class No.: 3211-04 CSA File No.: 012528 UL File No.: E29096 CSA IEC/EN 60947-4-1 VDE 0660 UL 508 CSA-C22.2 No. 14-05
CATALOG NOTES	Also tested according to AC-3e.



NUMBER OF POLES	Three-pole
FEATURES	Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module
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.

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	<u>dilm-characteristic-</u>
	<u>curve.eps</u>
CHARACTERISTIC CURVE	
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	<u>002.eps</u>
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	dilm-wiring-diagram.eps

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	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.
FITTED WITH:	Auxiliary contact
OPERATING FREQUENCY	9000 mechanical Operations/h
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
UTILIZATION CATEGORY	AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-4: Normal AC induction motors: starting, plugging, reversing, inching
CONNECTION	Screw terminals
AMBIENT OPERATING TEMPERATURE - MAX	50 °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	0.5 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	2 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	1.5 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	3 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	5 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	5 HP
CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	40 A
CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)	16 A
CONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)	10 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)	50 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	1.2 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER	0.4 W

POLE, CURRENT- DEPENDENT PVID	
SWITCHING TIME (AC OPERATED, N/O, WITH AUXILIARY CONTACT MODULE, CLOSING DELAY)	45 ms
APPLICATION	Mini Contactors for Motors and Resistive Loads
PRODUCT CATEGORY	Contactors
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
ARCING TIME	12 ms at 690 V AC
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
SCREWDRIVER SIZE	0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv
	screwdriver
VOLTAGE TYPE	screwdriver AC
VOLTAGE TYPE DEGREE OF PROTECTION	
	AC
DEGREE OF PROTECTION	AC IP20 As required (except vertical with terminals
DEGREE OF PROTECTION MOUNTING POSITION NUMBER OF AUXILIARY CONTACTS (NORMALLY	AC IP20 As required (except vertical with terminals A1/A2 at the bottom)
DEGREE OF PROTECTION MOUNTING POSITION NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY	AC IP20 As required (except vertical with terminals A1/A2 at the bottom) 0
DEGREE OF PROTECTION MOUNTING POSITION NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) NUMBER OF CONTACTS (NORMALLY CLOSED) AS	AC IP20 As required (except vertical with terminals A1/A2 at the bottom) 0 1
DEGREE OF PROTECTION MOUNTING POSITION NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT NUMBER OF CONTACTS (NORMALLY OPEN	AC IP20 As required (except vertical with terminals A1/A2 at the bottom) 0 1 0
DEGREE OF PROTECTION MOUNTING POSITION NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS) NUMBER OF MAIN CONTACTS (NORMALLY	AC IP20 As required (except vertical with terminals A1/A2 at the bottom) 0 1 1

PICK-UP VOLTAGE coil 50 Hz, 60 Hz) 1.1 V AC x Uc (voltage tolerance - dual frequency coil 50/60 Hz) POWER CONSUMPTION, PICK-UP, 50 HZ 22 W, AC, Single-frequency coil 50/60 Hz 25 VA, AC, Single-frequency coil 50/60 Hz 25 VA, AC, Single-frequency coil 50/60 Hz 300 V AC, Between the contacts, According to EN		
CAPACITY AT 660/690 V42 ARATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX100 VRATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN100 VRATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX110 VRATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN100 VOVERVOLTAGE (US) AT AC, 60 HZ - MIN100 VOVERVOLTAGE (US) AT AC, 60 HZ - MIN100 VOVERVOLTAGE (US) AT AC, 60 HZ - MINIIIOVERVOLTAGE (LS) AT AC, 60 HZ - MINIIIOVERVOLTAGE (CATEGORYIIIOVERVOLTAGE (CATEGORYIIICONTROL CIRCUIT RELIABILITY<2 \lambda < 1 failure at 100,000,000 Operations (at Uz = 24 V DC, Umin = 17 V, Imin = 5.4 mA)DUTY FACTOR100 %CHANGEOVER TIME16 - 21 msLIFESPAN, MECHANICAL150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A) 200,000 Operations (at 240 V, AC-15) 10,000,000 Operations (at 240 V, AC-15) 10,000,000 Operations (coil 50/60 Hz)PICK-UP VOLTAGE0.8 - 1.1 V AC x UC (voltage tolerance - single-voltage coil 50 HZ and dual-voltage coil 50 HZ and dual-voltage coil 50 HZ and Dual- frequency coil 50/60 HzPOWER CONSUMPTION, PICK-UP, 50 HZ22 W, AC, Single-frequency coil 50/60 HzPOWER CONSUMPTION, PICK-UP, 50 HZ22 W, AC, Single-frequency coil 50/60 HzADUAL-frequency coil 50/60 Hz 25 VA, AC, Single- frequency coil 50/60 HzADUAL-frequency coil 50/60 Hz 25 VA, AC, Single- frequency coil 50/60 HzADUAL-frequency coil 50/60 Hz 25 VA, AC, Single- frequency coil		64 A
VOLTAGE (US) AT AC, 50 HZ - MAX100 VRATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN100 VRATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX110 VRATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN100 VOVERVOLTAGE (US) AT AC, 60 HZ - MIN100 VDUTY FACTOR100 VCONTROL CIRCUIT RELIABILITY<2 \lambda < 1 failure at 100,000,000 Operations (at U= 24 V DC, Umin = 17 V, Imin = 5.4 mA)DUTY FACTOR100 %CHANGEOVER TIME16 - 21 msLIFESPAN, MECHANICAL150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A) 200,000 Operations (at 240 V, AC-15) 10,000,000 Operations (at 240 V, AC-15) 11,1 V AC x UC (voltage tolerance - single-voltage coil 50 Hz and dual-voltage coil 50 Hz and dual-voltage coil 50 Hz and Dual- frequency coil 50/60 Hz)POWER CONSUMPTION, PICK-UP, 50 HZ22 W, AC, Single- frequency coil 50/60 Hz 25 VA, AC, Single- freque		42 A
VOLTAGE (US) AT AC, 50 HZ - MIN100 VRATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX110 VRATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN100 VOVERVOLTAGE (US) AT AC, 60 HZ - MINIIIOVERVOLTAGE (US) AT AC, 60 HZ - MINIIIOVERVOLTAGE (US) AT AC, 60 HZ - MINIIIOUTAGE (US) AT AC, 60 HZ - MINIIIOVERVOLTAGE (CATEGORYIIIDUTY FACTORIIIDUTY FACTOR100 %CHANGEOVER TIME16 - 21 msCHANGEOVER TIME150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A) 200,000 Operations (at 240 V, AC - 15) 10,000,000 Operations (at 240 V, AC - 15) 11,000,000 Operations (at 250/60 Hz)PICK-UP VOLTAGE22 W, AC, Single-frequency coil 50/60 Hz 25 VA, AC, Single-frequency coil 50/60 Hz 25	VOLTAGE (US) AT AC, 50	100 V
VOLTAGE (US) AT AC, 60110 VRATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60100 VRATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60100 VQUERVOLTAGE CATEGORYIIICONTROL CIRCUIT RELIABILITY $< 2 \lambda < 1$ failure at 100,000,000 Operations (at Ue = 24 V DC, Umin = 17 V, Imin = 5.4 mA)DUTY FACTOR100 %DUTY FACTOR150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A) 200,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A) 200,000 Operations (at 240 V, AC-15) 10,000,000 Operations (coll S0/60 Hz)PICK-UP VOLTAGE0.8 - 1.1 V AC x Uc (voltage tolerance - single-voltage coil 50 Hz and dual-voltage coil 50 Hz and dual-voltage coil 50 Hz and dual-voltage tolerance - dual frequency coil 50/60 Hz)POWER CONSUMPTION, PICK-UP, 50 HZ22 W, AC, Single-frequency coil 50/60 HzPOWER CONSUMPTION, PICK-UP, 50 HZ300 V AC, Between the contacts, According to EN	VOLTAGE (US) AT AC, 50	100 V
VOLTAGE (US) AT AC, 60100 VHZ - MIN110 VOVERVOLTAGE CATEGORYIIICONTROL CIRCUIT RELIABILITY<2 λ, <1 failure at 100,000,000 Operations (at Ue = 24 V DC, Umin = 17 V, Imin = 5.4 mA)DUTY FACTOR100 %CHANGEOVER TIME16-21 msLIFESPAN, MECHANICAL150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A) 200,000 Operations (at 240 V, AC-15) 10,000,000 Operations (at 240 V, AC-15) 10,000,000 Operations (at 240 V, AC-15) 10,000,000 Operations (at 240 V, AC-15) 11,000,000 Operations (coil 50/60 Hz)PICK-UP VOLTAGE0.8 - 1.1 V AC x Uc (voltage tolerance - single-voltage coil 50 Hz and dual-voltage tolerance - dual frequency coil 50 Hz and dual-voltage tolerance - dual frequency coil 50/60 Hz)POWER CONSUMPTION, PICK-UP, 50 HZ22 W, AC, Single-frequency coil 50 Hz and Dual- frequency coil 50/60 Hz 25 VA, AC, Single- frequency coil 50/60 Hz 25 VA, AC, Single- 	VOLTAGE (US) AT AC, 60	110 V
CATEGORYIIICONTROL CIRCUIT RELIABILITY< 2 \label{equation} < 1 failure at 100,000,000 Operations (at Ue = 24 V DC, Umin = 17 V, Imin = 5.4 mA)DUTY FACTOR100 %CHANGEOVER TIME16 - 21 msLIFESPAN, MECHANICAL150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A) 200,000 Operations (at 240 V, AC-15) 10,000,000 Operations (at 250 VA, AC, Single-frequency coil 50 Hz and Dual- frequency coil 50/60 Hz 25 VA, AC, Single-frequency coil 50 Hz and Dual- frequency coil 50/60 Hz 25 VA, AC, Single	VOLTAGE (US) AT AC, 60	100 V
CONTROL CIRCUIT RELIABILITY100,000,000 Operations (at Ue = 24 V DC, Umin = 17 V, Imin = 5.4 mA)DUTY FACTOR100 %CHANGEOVER TIME16 - 21 msLIFESPAN, MECHANICAL150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A) 200,000 Operations (at 240 V, AC-15) 10,000,000 Operations (at 240 V, AC-15) 11,0000,000 Operations (at 240 V, AC-15) 11,1 V AC x UC (voltage tolerance - dual frequency coil 50/60 Hz)POWER CONSUMPTION PICK-UP, 50 HZ22 W, AC, Single-frequency coil 50/60 Hz 25 VA, AC, Single- frequency coil 50 Hz and Dual- frequency coil 50 H		111
CHANGEOVER TIME16 - 21 msLIFESPAN, MECHANICAL150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A) 200,000 Operations (at 240 V, AC-15) 10,000,000 Operations 7,000,000 Operations (at 50/60 Hz)PICK-UP VOLTAGE0.8 - 1.1 V AC x Uc (voltage tolerance - single-voltage coil 50 Hz and dual-voltage tolerance - dual frequency coil 50/60 Hz)POWER CONSUMPTION, PICK-UP, 50 HZ22 W, AC, Single-frequency coil 50/60 Hz)POWER CONSUMPTION, PICK-UP, 50 HZ22 W, AC, Single-frequency coil 50 Hz and Dual- frequency coil 50/60 Hz 25 VA, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz 25 VA, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz 25 VA, AC, Single- frequency coil 50/60 Hz 25 VA, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz 25 VA, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz 25 VA, AC, Single- frequency coil 50/60 Hz 4z		100,000,000 Operations (at U _e = 24 V DC, Umin =
LIFESPAN, MECHANICAL IFESPAN, MECHANICAL IFESP	DUTY FACTOR	100 %
LIFESPAN, MECHANICAL 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A) 200,000 Operations (at 240 V, AC-15) 10,000,000 Operations 7,000,000 Operations (Coil 50/60 Hz) 0.8 - 1.1 V AC x Uc (voltage tolerance - single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz) 1.1 V AC x Uc (voltage tolerance - dual frequency coil 50/60 Hz) 22 W, AC, Single-frequency coil 50/60 Hz) 22 W, AC, Single-frequency coil 50 Hz and Dual- frequency coil 50/60 Hz 25 VA, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50 Hz and Dual-frequency coil 50 Hz and Dual-frequency coil 50 Hz and Dual-frequency coil 5	CHANGEOVER TIME	16 - 21 ms
PICK-UP VOLTAGE tolerance - single-voltage Coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz) 1.1 V AC x UC (voltage tolerance - dual frequency coil 50/60 Hz) 22 W, AC, Single-frequency coil 50 Hz and Dual-frequency coil 50/60 Hz 25 VA, AC, Single-frequency power consumption, pick-up, 50 Hz 25 VA, AC, Single-frequency add the second seco	LIFESPAN, MECHANICAL	240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A) 200,000 Operations (at 240 V, AC-15) 10,000,000 Operations 7,000,000 Operations (Coil
POWER CONSUMPTION, PICK-UP, 50 HZcoil 50 Hz and Dual- frequency coil 50/60 Hz 25 VA, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50 Hz and Dual-frequency coil 50/60 HzImage: Strain Str	PICK-UP VOLTAGE	tolerance - single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz) 1.1 V AC x Uc (voltage tolerance - dual frequency
contacts, According to EN		coil 50 Hz and Dual- frequency coil 50/60 Hz 25 VA, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60
300 V AC, Between auxiliary contacts,	SAFE ISOLATION	contacts, According to EN 61140 300 V AC, Between

	According to EN 61140 300 V AC, Between coil and contacts, According to EN 61140 300 V AC, Between coil and auxiliary contacts, According to EN 61140
POWER CONSUMPTION, PICK-UP, 60 HZ	25 VA, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz 22 W, AC, Single-frequency coil 50 Hz and Dual- frequency coil 50/60 Hz
SCREW SIZE	M3.5, Terminal screw
POWER CONSUMPTION, SEALING, 50 HZ	 1.8 W, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz 4.6 VA, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
POWER CONSUMPTION, SEALING, 60 HZ	1.8 W, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
RATED OPERATIONAL CURRENT (IE)	1.5 A at 100 V, DC L/R \leq 15 ms (with 3 contacts in series) 2.5 A at 60 V, DC L/R \leq 15 ms (with 2 contacts in series) 0.5 A at 220 V, DC L/R \leq 15 ms (with 3 contacts in series) 2.5 A at 24 V, DC L/R \leq 15 ms (with 1 contact in series)
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	0.5 A, 250 V DC, (UL/CSA) 10 A, 600 V AC, (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	P300, DC operated (UL/CSA) A600, AC operated (UL/CSA)
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 1.5) mm² 2 x (0.75 - 1.5) mm²
SHOCK RESISTANCE	20 g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to

IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 8 g, N/O auxiliary contact, Basic unit without auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 10 g, N/O main contact, Basic unit without auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 20 g, N/O auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 20 g, N/O auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 20 g, N/O auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 10 g, N/O main contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 10 g, N/O main contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 10 g, N/O main contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 10 g, N/O main contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 10 g, N/O main contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 10 g, N/O main contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 10 g, N/O main contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 10 g, N/O Tage (US) AT DC - NU </th
(SOLID)1 x (0.75 - 2.5) mm²TERMINAL CAPACITY (SOLID/STRANDED AWG)18 - 14SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)15 A, Maximum motor rating (UL/CSA)TIGHTENING TORQUE1.2 Nm, Screw terminalsRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC - VOLTAGE (US) AT DC -0 V
TERMINAL CAPACITY (SOLID/STRANDED AWG)18 - 14SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)15 A, Maximum motor rating (UL/CSA)TIGHTENING TORQUE1.2 Nm, Screw terminalsRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC -0 V
(SOLID/STRANDED AWG)18 - 14SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)15 A, Maximum motor rating (UL/CSA)TIGHTENING TORQUE1.2 Nm, Screw terminalsRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC -0 V
(MAIN CONTACTS, GENERAL USE)15 A, Maximum motor rating (UL/CSA)TIGHTENING TORQUE1.2 Nm, Screw terminalsRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC -0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX RATED CONTROL SUPPLY VOLTAGE (US) AT DC - 0 V
VOLTAGE (US) AT DC - MAX0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC -0 V
VOLTAGE (US) AT DC - 0 V
MIN
RATED INSULATION VOLTAGE (UI) 690 V
RATED MAKING CAPACITY UP TO 440 V (COS PHI TO IEC/EN 60947)
RATED OPERATIONAL CURRENT (IE) AT AC-1, 22 A 380 V, 400 V, 415 V
RATED OPERATIONAL CURRENT (IE) AT AC-15, 6 A 220 V, 230 V, 240 V 6 A

RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V	3 A
RATED OPERATIONAL CURRENT (IE) AT AC-15, 500 V	1.5 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	9 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	9 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	9 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	6.4 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	4.8 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	6.6 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	6.6 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	6.6 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	5 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	3.4 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V	20 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 12 V	20 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V	20 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 24 V	20 A

V	
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	9 A
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	2.5 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	4 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	4.3 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	1.5 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	1.8 kW
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	3 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	3.1 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	3.3 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	3 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	3 kW
RATED OPERATIONAL POWER (NEMA)	3.7 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RESISTANCE PER POLE	9.18 mΩ
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	1.8 W
STRIPPING LENGTH (MAIN CABLE)	8 mm
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	21 ms

SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	14 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	18 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	8 ms
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	5 kA, SCCR (UL/CSA) 45 A, max. Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION	PKZM0-4, Maximum overcurrent protective device, Short-circuit protection only, Auxiliary contacts, Short-circuit rating without welding 10 A fast, Max. Fuse 500V, Auxiliary contacts, Short- circuit rating without welding 6 A gG/gL, Max. Fuse 500V, Auxiliary contacts, Short- circuit rating without welding
SUITABLE FOR	Also motors with efficiency class IE3
SHORT-CIRCUIT	
PROTECTION RATING (TYPE 1 COORDINATION) AT 500 V	20 A gG/gL
PROTECTION RATING (TYPE 1 COORDINATION)	20 A gG/gL 10 A gG/gL
PROTECTION RATING (TYPE 1 COORDINATION) AT 500 V SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION)	
PROTECTION RATING (TYPE 1 COORDINATION) AT 500 V SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 500 V CONVENTIONAL THERMAL CURRENT ITH	10 A gG/gL
PROTECTION RATING (TYPE 1 COORDINATION) AT 500 VSHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 500 VCONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)CONVENTIONAL THERMAL CURRENT ITH	10 A gG/gL 22 A 20 A
PROTECTION RATING (TYPE 1 COORDINATION) AT 500 VSHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 500 VCONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)RATED OPERATIONAL POWER AT AC-3, 440 V, 50	10 A gG/gL 22 A 20 A

POWER AT AC-3, 690 V, 50 HZ	
ACTUATING VOLTAGE	100 V 50Hz, 100-110 V 60Hz
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:

:



Eaton House 30 Pembroke Road Dublin 4, Eaton.com

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