Eaton 051647

Eaton Moeller® series DILEEM Contactor, 60 V DC, 3 pole, 380 V 400 V, 3 kW, Contacts N/C = Normally closed= 1 NC, Screw terminals, DC operation

PRODUCT NAME	Eaton Moeller® series
CATALOG NUMBER	DILEEM Mini contactor 051647
PRODUCT	
LENGTH/DEPTH	54 mm
PRODUCT HEIGHT	58 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.206 kg
CERTIFICATIONS	CSA File No.: 012528 IEC/EN 60947 VDE 0660 CE CSA IEC/EN 60947-4-1 UL Category Control No.: NLDX CSA Class No.: 3211-04 UL 508 UL File No.: E29096 UL 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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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	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	Is 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-1: Non-inductive or slightly inductive loads, resistance furnaces AC-3: Normal AC induction motors: starting, switch off during running AC-4: Normal AC induction motors: starting, plugging, reversing, inching
CONNECTION	Screw terminals

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	0.25 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	1.5 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	1 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	2 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	3 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	3 HP
CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	40 A
CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)	16 A
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	19 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	0.6 W

HEAT DISSIPATION CAPACITY PDISS HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID SWITCHING TIME (AC OPERATED, N/O, WITH AUXILIARY CONTACT MODULE, CLOSING DELAY) SWITCHING TIME (DC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX SWITCHING TIME (DC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN Mini Contactors for Motors and Resistive Loads PRODUCT CATEGORY Contactors 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 O.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver VOLTAGE TYPE DC DEGREE OF PROTECTION NUMBER OF AUXILIARY 1		
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OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN Mini Contactors for Motors and Resistive Loads PRODUCT CATEGORY Contactors 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 SCREWDRIVER SIZE O.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver VOLTAGE TYPE DC DEGREE OF PROTECTION MOUNTING POSITION As required (except vertical with terminals A1/A2 at the bottom)	OPERATED, MAKE CONTACTS, CLOSING	35 ms
OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN APPLICATION Mini Contactors for Motors and Resistive Loads PRODUCT CATEGORY Contactors 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 O.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver VOLTAGE TYPE DC DEGREE OF PROTECTION MOUNTING POSITION As required (except vertical with terminals A1/A2 at the bottom)	OPERATED, MAKE CONTACTS, CLOSING	26 ms
OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN Mini Contactors for Motors and Resistive Loads PRODUCT CATEGORY Contactors 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 O.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver VOLTAGE TYPE DC DEGREE OF PROTECTION MOUNTING POSITION Mini Contactors Motors and Resistive Loads Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) Screw connection 12 ms at 690 V AC Screw connection As required (except, Pozidriv vertical with terminals A1/A2 at the bottom)	OPERATED, MAKE CONTACTS, OPENING	25 ms
APPLICATION Motors and Resistive Loads PRODUCT CATEGORY Contactors 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 O.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver VOLTAGE TYPE DC DEGREE OF PROTECTION As required (except vertical with terminals A1/A2 at the bottom)	OPERATED, MAKE CONTACTS, OPENING	15 ms
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 O.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver VOLTAGE TYPE DC DEGREE OF PROTECTION MOUNTING POSITION Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) AC THE MENT OF THE PROOF	APPLICATION	Motors and Resistive
PROTECTION 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 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver VOLTAGE TYPE DC DEGREE OF PROTECTION MOUNTING POSITION proof, Protection against direct contact when actuated from front (EN 50274) AC TOWN TOWN TOWN TOWN TOWN TOWN TOWN TOWN	PRODUCT CATEGORY	Contactors
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SCREWDRIVER SIZE Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver VOLTAGE TYPE DC DEGREE OF PROTECTION IP20 As required (except vertical with terminals A1/A2 at the bottom)	CONNECTION TYPE OF	Screw connection
DEGREE OF PROTECTION IP20 As required (except vertical with terminals A1/A2 at the bottom)	SCREWDRIVER SIZE	Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv
As required (except vertical with terminals A1/A2 at the bottom)	VOLTAGE TYPE	DC
MOUNTING POSITION vertical with terminals A1/A2 at the bottom)	DEGREE OF PROTECTION	IP20
NUMBER OF AUXILIARY 1	MOUNTING POSITION	vertical with terminals
	NUMBER OF AUXILIARY	1

CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT) RATED BREAKING CAPACITY AT 380/400 V RATED BREAKING CAPACITY AT 500 V RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX RATE		
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CONTACTS (NORMALLY OPEN CONTACT) 3 RATED BREAKING CAPACITY AT 220/230 V 90 A RATED BREAKING CAPACITY AT 380/400 V 90 A RATED BREAKING CAPACITY AT 500 V 64 A RATED BREAKING CAPACITY AT 660/690 V 42 A RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX 0 V RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN 0 V RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX 0 V RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN 0 V OVERVOLTAGE CATEGORY III CONTROL CIRCUIT RELIABILITY < 2 λ, < 1 failure at 100,000,000 Operations (at U _e = 24 V DC, Umin = 17 V, Imin = 5.4 mA) DUTY FACTOR 100 % CHANGEOVER TIME 40 - 50 ms LIFESPAN, MECHANICAL 240 V, AC-15) 150,000 Operations (at 240 V, AC-15) 150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A)	(NORMALLY CLOSED) AS	0
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CAPACITY AT 380/400 V 90 A RATED BREAKING CAPACITY AT 500 V 64 A RATED BREAKING CAPACITY AT 660/690 V 42 A RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX 0 V RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN 0 V RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN 0 V OVERVOLTAGE CATEGORY III CONTROL CIRCUIT RELIABILITY (2 λ, < 1 failure at 100,000,000 Operations (at Ue = 24 V DC, Umin = 17 V, Imin = 5.4 mA) DUTY FACTOR 100 % CHANGEOVER TIME 40 - 50 ms LIFESPAN, MECHANICAL 20,000,000 Operations (at 240 V, AC-15) 150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A)		90 A
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VOLTAGE (US) AT AC, 50 0 V HZ - MAX 0 V RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN 0 V RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX 0 V RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN 0 V OVERVOLTAGE CATEGORY III CONTROL CIRCUIT RELIABILITY < 2 λ, < 1 failure at 100,000,000 Operations (at Ue = 24 V DC, Umin = 17 V, Imin = 5.4 mA) DUTY FACTOR 100 % CHANGEOVER TIME 40 - 50 ms LIFESPAN, MECHANICAL 20,000,000 Operations 200,000 Operations (at 240 V, AC-15) 150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A)		42 A
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 OVERVOLTAGE CATEGORY III CONTROL CIRCUIT RELIABILITY (2 λ, < 1 failure at 100,000,000 Operations (at Ue = 24 V DC, Umin = 17 V, Imin = 5.4 mA) DUTY FACTOR 100 % CHANGEOVER TIME 40 - 50 ms 20,000,000 Operations (at 240 V, AC-15) 150,000 Operations (at 240 V, AC-15) 150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A)	VOLTAGE (US) AT AC, 50	0 V
VOLTAGE (US) AT AC, 60 HZ - MAX 0 V RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN 0 V OVERVOLTAGE CATEGORY III CONTROL CIRCUIT RELIABILITY < 2 λ, < 1 failure at 100,000,000 Operations (at U _e = 24 V DC, Umin = 17 V, Imin = 5.4 mA) DUTY FACTOR 100 % CHANGEOVER TIME 40 - 50 ms LIFESPAN, MECHANICAL 20,000,000 Operations 200,000 Operations (at 240 V, AC-15) 150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A)	VOLTAGE (US) AT AC, 50	0 V
VOLTAGE (US) AT AC, 60 HZ - MIN 0 V OVERVOLTAGE CATEGORY III CONTROL CIRCUIT RELIABILITY < 2 λ, < 1 failure at 100,000,000 Operations (at U _e = 24 V DC, Umin = 17 V, Imin = 5.4 mA) DUTY FACTOR 100 % CHANGEOVER TIME 40 - 50 ms LIFESPAN, MECHANICAL 20,000,000 Operations 200,000 Operations (at 240 V, AC-15) 150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A)	VOLTAGE (US) AT AC, 60	0 V
$ \begin{array}{c} \textbf{CATEGORY} \\ & < 2 \lambda, < 1 \text{ failure at} \\ & 100,000,000 \text{ Operations} \\ & (at U_e = 24 V DC, Umin = 17 V, Imin = 5.4 mA) \\ \\ \textbf{DUTY FACTOR} \\ \textbf{CHANGEOVER TIME} \\ \textbf{LIFESPAN, MECHANICAL} \\ \\ \textbf{LIFESPAN, MECHANICAL} \\ \\ \textbf{100 \%} \\ & 20,000,000 \text{ Operations} \\ & 200,000 \text{ Operations} \\ & 240 V, AC-15) \\ & 150,000 \text{ Operations} (at 240 V, DC, L/R = 50 ms: 2 \\ & contacts \text{ in series } 0.5 A) \\ \end{array} $	VOLTAGE (US) AT AC, 60	0 V
$ \begin{array}{lll} \textbf{CONTROL CIRCUIT} & 100,000,000 \ \text{Operations} \\ \text{(at } U_e = 24 \ \text{V DC, Umin} = \\ 17 \ \text{V, Imin} = 5.4 \ \text{mA}) \\ \\ \textbf{DUTY FACTOR} & 100 \% \\ \\ \textbf{CHANGEOVER TIME} & 40 - 50 \ \text{ms} \\ \\ \textbf{LIFESPAN, MECHANICAL} & 20,000,000 \ \text{Operations} \\ 200,000 \ \text{Operations} \ \text{(at } \\ 240 \ \text{V, AC-15}) \\ 150,000 \ \text{Operations} \ \text{(at } \\ 240 \ \text{V, DC, L/R} = 50 \ \text{ms: 2} \\ \text{contacts in series 0.5 A)} \\ \end{array} $		III
CHANGEOVER TIME 40 - 50 ms 20,000,000 Operations 200,000 Operations (at 240 V, AC-15) 150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A)		100,000,000 Operations (at U _e = 24 V DC, Umin =
20,000,000 Operations 200,000 Operations (at 240 V, AC-15) 150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A)	DUTY FACTOR	100 %
200,000 Operations (at 240 V, AC-15) 150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A)	CHANGEOVER TIME	40 - 50 ms
PICK-UP VOLTAGE 0.8 - 1.1 V DC x Uc	LIFESPAN, MECHANICAL	200,000 Operations (at 240 V, AC-15) 150,000 Operations (at 240 V, DC, L/R = 50 ms: 2
	PICK-UP VOLTAGE	0.8 - 1.1 V DC x Uc

SAFE ISOLATION	300 V AC, Between the contacts, 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 300 V AC, Between auxiliary contacts, According to EN 61140 According to EN 61140
SCREW SIZE	M3.5, Terminal screw
RATED OPERATIONAL CURRENT (IE)	1.5 A at 100 V, DC L/R ≤ 15 ms (with 3 contacts in series) 2.5 A at 60 V, DC L/R ≤ 15 ms (with 2 contacts in series) 0.5 A at 220 V, DC L/R ≤ 15 ms (with 3 contacts in series) 2.5 A at 24 V, DC L/R ≤ 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)	A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (0.75 - 1.5) mm ² 1 x (0.75 - 1.5) mm ²
SHOCK RESISTANCE	10 g, N/C 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 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 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, Halfsinusoidal shock 10 ms 20 g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms
TERMINAL CAPACITY (SOLID)	2 x (0.75 - 2.5) mm ² 1 x (0.75 - 2.5) mm ²
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	15 A, Maximum motor rating (UL/CSA)
POWER CONSUMPTION	Smoothed DC voltage or three-phase bridge rectifier 2.3 VA/W at DC (Pick- up/Sealing power)
TIGHTENING TORQUE	1.2 Nm, Screw terminals
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	60 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	60 V
RATED INSULATION VOLTAGE (UI)	690 V
RATED MAKING CAPACITY UP TO 440 V (COS PHI TO IEC/EN 60947)	110 A
RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	22 A
RATED OPERATIONAL CURRENT (IE) AT AC-15, 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	6.6 A

RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	6.6 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	6.6 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	5 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	3.5 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	5 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	5 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	5 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	3.7 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	2.9 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
RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V	20 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	6.6 A
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	1.8 kW
RATED OPERATIONAL POWER AT AC-3, 380/400	3 kW

V, 50 HZ	
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	3.1 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	1.1 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	1.3 kW
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	2.2 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	2.3 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	2.4 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	2.2 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	2.2 kW
RATED OPERATIONAL POWER (NEMA)	2.2 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RESISTANCE PER POLE	7.86 mΩ
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	2.3 W
STRIPPING LENGTH (MAIN CABLE)	8 mm
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	45 A, max. Fuse, SCCR (UL/CSA) 5 kA, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION	6 A gG/gL, Max. Fuse 500V, Auxiliary contacts, Short-circuit rating without welding 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
SUITABLE FOR	Also motors with efficiency class IE3
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 500 V	20 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 500 V	10 A gG/gL
CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	22 A
CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	20 A
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	3.3 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	3 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	3 kW
ACTUATING VOLTAGE	60 V DC
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

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