Eaton 104453

Eaton Moeller® series DILMF Contactors for Semiconductor Industries acc. to SEMI F47, 380 V 400 V: 32 A, 1 N/O, RAC 240: 190 - 240 V 50/60 Hz, Screw terminals

PRODUCT NAME	Eaton Moeller® series DILMF contactor for semiconductor industries
CATALOG NUMBER	104453
PRODUCT LENGTH/DEPTH	97 mm
PRODUCT HEIGHT	85 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.531 kg
CERTIFICATIONS	CSA Class No.: 2411-03, 3211-04 CSA-C22.2 No. 60947-4-1- 14 IEC/EN 60947-4-1 UL File No.: E29096 UL Category Control No.: NLDX CE CSA CSA File No.: 012528 UL 60947-4-1
CATALOG NOTES	Also tested according to AC-3e.



ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT	Screw connection
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.

SYSTEM OVERVIEW	eaton-contactors-circuit- breaker-dilmf-explosion- drawing.eps
	eaton-contactors- mounting-dilmf-explosion- drawing.eps
	<u>IL03407014Z2021_09.pdf</u>
	<u>eaton-contactors-contact-</u> <u>dilm-wiring-diagram.eps</u>
	<u>eaton-contactors-</u> <u>dimensions-210t014.eps</u>

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	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	Is the panel builder's responsibility.
FITTED WITH:	Built-in suppressor circuit
POLLUTION DEGREE	3
OPERATING MODE	Operating mechanism adjustable from 50 Hz to
	400 Hz.
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
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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
UTILIZATION CATEGORY CONNECTION AMBIENT OPERATING	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 Screw terminals
UTILIZATION CATEGORY CONNECTION AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING	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 Screw terminals 60 °C
CONNECTION AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN AMBIENT OPERATING TEMPERATURE - MIN	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 Screw terminals 60 °C -25 °C

TEMPERATURE (ENCLOSED) - MIN	
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE	2 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	10 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	5 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	10 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	20 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	25 HP
CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	90 A
CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)	36 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)	100 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	6.6 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	2.2 W
APPLICATION	Contactors for Semiconductor Industries acc. to SEMI F47
PRODUCT CATEGORY	Contactors
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection

VOLTAGE TYPE	AC
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1
NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT	0
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	1
NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	3
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	240 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	190 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	240 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	190 V
DROP-OUT VOLTAGE	AC operated: 0.5 - 0.2 x UC, AC operated
OVERVOLTAGE CATEGORY	III
DUTY FACTOR	100 %
EMITTED INTERFERENCE	According to EN 60947-1
INTERFERENCE IMMUNITY	According to EN 60947-1
PICK-UP VOLTAGE	0.8 - 1.15 V AC x Uc
POWER CONSUMPTION, PICK-UP, 50 HZ	14 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
POWER CONSUMPTION, SEALING, 50 HZ	0.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 0.8 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
SWITCHING CAPACITY (AUXILIARY CONTACTS,	10 A, 600 V AC, (UL/CSA)

SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	40 A, Maximum motor rating (UL/CSA)
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 OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	45 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	32 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	32 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	32 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	32 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	18 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	15 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	15 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	15 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	15 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	12 A
RATED OPERATIONAL CURRENT FOR SPECIFIED	32 A

HEAT DISSIPATION (IN)	
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	11 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	15 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	19 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	4 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	4.5 kW
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	7 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	7.5 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	8 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	9 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	10 kW
RATED OPERATIONAL POWER (NEMA)	14.9 kW
RESISTANCE PER POLE	2.65 mΩ
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	0.8 W
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	40 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	45 ms
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	125 A, max. CB, SCCR (UL/CSA) 5 kA, SCCR (UL/CSA) 125 A, max. Fuse, SCCR

	(UL/CSA)	
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)	50/32 A, max. CB, SCCR (UL/CSA) 125/70 A, Class J, max. Fuse, SCCR (UL/CSA) 10/65 kA, CB, SCCR (UL/CSA) 10/100 kA, Fuse, SCCR (UL/CSA)	
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	50/32 A, max. CB, SCCR (UL/CSA) 10/100 kA, Fuse, SCCR (UL/CSA) 125/125 A, Class J, max. Fuse, SCCR (UL/CSA) 10/22 kA, CB, SCCR (UL/CSA)	
SUITABLE FOR	Also motors with efficiency class IE3 SEMI F47, Magnet systems	
SPECIAL PURPOSE RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS	40 A (480V 60Hz 3phase, 277V 60Hz 1phase) 40 A (600V 60Hz 3phase, 347V 60Hz 1phase)	
SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING	32 A, FLA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 192 A, LRA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA)	
SPECIAL PURPOSE RATING OF ELEVATOR CONTROL	25.3 A, 200 V 60 Hz 3-ph, (UL/CSA) 20 HP, 480 V 60 Hz 3-ph, (UL/CSA) 7.5 HP, 200 V 60 Hz 3-ph, (UL/CSA) 27 A, 480 V 60 Hz 3-ph, (UL/CSA) 22 A, 600 V 60 Hz 3-ph, (UL/CSA) 20 HP, 600 V 60 Hz 3-ph, (UL/CSA) 7.5 HP, 240 V 60 Hz 3-ph, (UL/CSA) 22 A, 240 V 60 Hz 3-ph, (UL/CSA)	
SPECIAL PURPOSE RATING OF REFRIGERATION CONTROL (CSA ONLY)	240 A, LRA 480 V 60 Hz 3phase; (CSA) 40 A, FLA 480 V 60 Hz 3phase; (CSA) 180 A, LRA 600 V 60 Hz 3phase; (CSA) 30 A, FLA 600 V 60 Hz 3phase; (CSA)	

ATING OF RESISTANCE IR HEATING ATING OF RESISTANCE IR HEATING AT V 60 Hz 1phase, (UL/CSA) 40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 40 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 40 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 40 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 45 A 45 A 46 A 47 V 60 Hz 1phase, (UL/CSA) 48 A 49 A 40 A 40 A 40 A 40 A 40 A 41 A 42 A 43 A 40 A 41 A 42 A 43 A 43 A 40 A 40 A 41 A 42 A 43 A 43 A 44 A 45 A 46 A 47 Y 60 Hz 1phase, (UL/CSA) 48 A 49 A 40 A 40 A 40 A 41 A 42 A 43 A 43 A 44 A 45 A 46 A 47 Y 60 Hz 1phase, (UL/CSA) 40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 40 A, 600 V 60 Hz 1phase, (UL/CSA) 45 A 47 Y 60 Hz 1phase, (UL/CSA) 45 A 47 Y 60 Hz 1phase, (UL/CSA) 47 Y 60 Hz 1phase, (UL/CSA) 48 A 49 A 49 A 40 A 40 A 41 A 41 A 42 A 41 A 42 A 43 A 41 A 42 A 43 A 41 A 42 A 43 A 44 A 45 A 47 Y 60 Hz 1phase, (UL/CSA) 48 A 49 A 40 A 40 A 41 A 41 A 41 A 42 A 41 A 42 A		
PECIAL PURPOSE ATING OF TUNGSTEN NCANDESCENT LAMPS ONVENTIONAL HERMAL CURRENT ITH T 40°C (3-POLE, OPEN) ONVENTIONAL HERMAL CURRENT ITH T 50°C (3-POLE, OPEN) ONVENTIONAL HERMAL CURRENT ITH T 60°C (3-POLE, OPEN) ONVENTIONAL HERMAL CURRENT ITH T 60°C (3-POLE, OPEN) ONVENTIONAL OWER AT AC-3, 440 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 500 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V 50/60 Hz ATEN OPERATIONAL OWER AT AC-3, 690 V 50/60 Hz ATEN OPERATIONAL OWER AT AC-3, 690 V 50/60 Hz ATEN OPERATIONAL OWER AT AC-3, 690 V 50/60 Hz ATEN OPERATIONAL OWER AT AC-3, 690 V 50/60 Hz ATEN OPERATIONAL OWER AT AC-3, 690 V 50/60 Hz ATEN OPERATIONAL OWER AT AC-3, 690 V 50/60 HZ ATEN OPERATIONAL OWER AT AC-3, 690 V 50/60 HZ ATEN OPERATIONAL OWER AT AC-3, 690 V 50/60 HZ ATEN OPERATIONAL OWER AT AC-3, 690 V 50/60 HZ ATEN OPERATIONAL OWER AT AC-3, 690 V 50/60 HZ ATEN OPERATIONAL OWER AT AC-3, 690 V 50/60 HZ ATEN OPERATIONAL OWER AT AC-3, 690 V 50/60 HZ ATEN OPERATIONAL OWER AT AC-3, 690 V 50/60 HZ ATEN OPERATIONAL OWER AT AC-3, 690 V 50/60 HZ ATEN OPERATIONAL OWER AT AC-3, 690 V 50/60 HZ ATEN OPERATIONAL OWER AT AC-3, 690 V 50/60 HZ ATEN OPERATIONAL OWER AT AC-3, 690 V 50/60 HZ ATEN OPERATIONAL OWER AT AC-3, 690 V 50/60 HZ ATEN OPERA	SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING	277 V 60 Hz 1phase, (UL/CSA) 40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase,
HERMAL CURRENT ITH T 40°C (3-POLE, OPEN) ONVENTIONAL HERMAL CURRENT ITH T 50°C (3-POLE, OPEN) ONVENTIONAL HERMAL CURRENT ITH T 50°C (3-POLE, OPEN) ATED OPERATIONAL OWER AT AC-3, 440 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 500 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z CTUATING VOLTAGE LTITUDE Max. 2000 m PERATING VOLTAGE AT C, 50 HZ - MIN PERATING VOLTAGE AT C, 60 HZ - MIN	SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS	347 V 60 Hz 1phase, (UL/CSA) 40 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase,
HERMAL CURRENT ITH T 50°C (3-POLE, OPEN) ONVENTIONAL HERMAL CURRENT ITH T 60°C (3-POLE, OPEN) ATED OPERATIONAL OWER AT AC-3, 440 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 500 V, 50 Z3 kW Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z CTUATING VOLTAGE RAC 240: 190 - 240 V 50/60 Hz PERATING VOLTAGE AT C, 50 HZ - MIN PERATING VOLTAGE AT C, 50 HZ - MAX PERATING VOLTAGE AT C, 60 HZ - MIN	CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	45 A
HERMAL CURRENT ITH T 60°C (3-POLE, OPEN) ATED OPERATIONAL OWER AT AC-3, 440 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 500 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 Z CTUATING VOLTAGE LTITUDE PERATING VOLTAGE AT C, 50 HZ - MIN PERATING VOLTAGE AT C, 60 HZ - MIN PERATING VO	CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	43 A
OWER AT AC-3, 440 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 500 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 To key to	CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)	40 A
OWER AT AC-3, 500 V, 50 Z ATED OPERATIONAL OWER AT AC-3, 690 V, 50 17 kW Z CTUATING VOLTAGE LTITUDE Max. 2000 m PERATING VOLTAGE AT C, 50 HZ - MIN PERATING VOLTAGE AT C, 60 HZ - MIN PERATING VOLTAGE AT 690 V	RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	20 kW
OWER AT AC-3, 690 V, 50 Z CTUATING VOLTAGE LTITUDE Max. 2000 m PERATING VOLTAGE AT C, 50 HZ - MIN PERATING VOLTAGE AT C, 50 HZ - MAX PERATING VOLTAGE AT C, 60 HZ - MIN PERATING VOLTAGE AT 690 V	RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	23 kW
LTITUDE Max. 2000 m PERATING VOLTAGE AT C, 50 HZ - MIN PERATING VOLTAGE AT C, 50 HZ - MAX PERATING VOLTAGE AT C, 60 HZ - MIN PERATING VOLTAGE AT C, 60 HZ - MIN PERATING VOLTAGE AT C, 60 HZ - MIN	RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	17 kW
PERATING VOLTAGE AT C, 50 HZ - MIN PERATING VOLTAGE AT C, 50 HZ - MAX PERATING VOLTAGE AT C, 60 HZ - MIN PERATING VOLTAGE AT C, 60 HZ - MIN PERATING VOLTAGE AT 690 V	ACTUATING VOLTAGE	
C, 50 HZ - MIN PERATING VOLTAGE AT C, 50 HZ - MAX PERATING VOLTAGE AT C, 60 HZ - MIN PERATING VOLTAGE AT 690 V 690 V	ALTITUDE	Max. 2000 m
C, 50 HZ - MAX PERATING VOLTAGE AT C, 60 HZ - MIN PERATING VOLTAGE AT 690 V	OPERATING VOLTAGE AT AC, 50 HZ - MIN	230 V
C, 60 HZ - MIN PERATING VOLTAGE AT 690 V	OPERATING VOLTAGE AT AC, 50 HZ - MAX	690 V
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:	
:	



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