Eaton 051596

Eaton Moeller® series DILEEM Contactor, 24 V 50/60 Hz, 3 pole, 380 V 400 V, 3 kW, Contacts N/O = Normally open= 1 N/O, Screw terminals, AC operation

PRODUCT NAME	Eaton Moeller® series DILEEM Mini contactor
CATALOG NUMBER	051596
PRODUCT LENGTH/DEPTH	52 mm
PRODUCT HEIGHT	58 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.17 kg
CERTIFICATIONS	IEC/EN 60947-4-1 UL Category Control No.: NLDX CSA File No.: 012528 CSA Class No.: 3211-04 UL CSA-C22.2 No. 14-05 CSA UL File No.: E29096 IEC/EN 60947 CE VDE 0660 UL 508
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.

<u>IL03407009Z</u>

eaton-contactors-contactdilm-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-4: Normal AC induction motors: starting, plugging, reversing, inching AC-1: Non-inductive or slightly inductive loads, resistance furnaces
CONNECTION	Screw terminals
AMBIENT OPERATING TEMPERATURE - MAX	50 °C

AMBIENT OPERATING TEMPERATURE - MIN-25 °CAMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX40 °CAMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN-25 °CAMBIENT STORAGE TEMPERATURE - MIN-40 °CAMBIENT STORAGE TEMPERATURE - MIN-40 °CASSIGNED MOTOR POWER AT 115/120 V, 600.25 HPHZ, 1-PHASE0.25 HPASSIGNED MOTOR POWER AT 230/240 V, 601.5 HPHZ, 3-PHASE2ASSIGNED MOTOR POWER AT 230/240 V, 601 HPHZ, 3-PHASE3 HPASSIGNED MOTOR POWER AT 230/240 V, 603 HPHZ, 3-PHASE3 HPASSIGNED MOTOR POWER AT 575/600 V, 603 HPHZ, 3-PHASE3 HPASSIGNED MOTOR POWER AT 460/480 V, 603 HPHZ, 3-PHASE3 HPASSIGNED MOTOR POWER AT 575/600 V, 603 HPHZ, 3-PHASE10 ACONVENTIONAL THERMAL CURRENT ITH HERMAL CURRENT ITH OF AUXILIARY CONTACTS (1- POLE, OPEN)50 ACONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1- POLE, OPEN)50 A		
TEMPERATURE (ENCLOSED) - MAX40 °CAMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN-25 °CAMBIENT STORAGE TEMPERATURE - MAX80 °CAMBIENT STORAGE TEMPERATURE - MIN-40 °CASSIGNED MOTOR POWER AT 115/120 V, 600.25 HPHZ, 1-PHASE-40 °CASSIGNED MOTOR POWER AT 200/208 V, 601.5 HPHZ, 3-PHASE1.5 HPASSIGNED MOTOR POWER AT 230/240 V, 601 HPHZ, 3-PHASE2 HPASSIGNED MOTOR POWER AT 230/240 V, 603 HPHZ, 3-PHASE3 HPHZ, 3-PHASE3 HPHZ, 3-PHASE3 HPHZ, 3-PHASE16 ACONVENTIONAL THERMAL CURRENT ITH HERMAL CURRENT ITH THERMAL CURRENT ITH THERM		-25 °C
TEMPFRATURE (ENCLOSED) - MIN-25 °CAMBIENT STORAGE TEMPERATURE - MIN80 °CAMBIENT STORAGE TEMPERATURE - MIN-40 °CASSIGNED MOTOR POWER AT 115/120 V, 600.25 HPHZ, 1-PHASE0.25 HPASSIGNED MOTOR POWER AT 200/208 V, 601.5 HPHZ, 1-PHASE1.5 HPASSIGNED MOTOR POWER AT 230/240 V, 601 HPHZ, 1-PHASE2 HPHZ, 1-PHASE1 HPHZ, 1-PHASE2 HPHZ, 3-PHASE3 HPASSIGNED MOTOR POWER AT 230/240 V, 603 HPHZ, 3-PHASE3 HPHZ, 3-PHASE3 HPHZ, 3-PHASE3 HPHZ, 3-PHASE3 HPHZ, 3-PHASE3 HPCONVENTIONAL THERMAL CURRENT ITH HERMAL CURRENT ITH HERMAL CURRENT ITH THERMAL CURRENT ITH THERMAL CURRENT ITH THERMAL CURRENT ITH THERMAL CURRENT ITH THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)10 ACONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)50 AEQUIPMENT HEAT50 A	TEMPERATURE	40 °C
TEMPERATURE - MAX80 °CAMBIENT STORAGE TEMPERATURE - MIN-40 °CASSIGNED MOTOR POWER AT 115/120 V, 600.25 HPHZ, 1-PHASE0.25 HPASSIGNED MOTOR POWER AT 200/208 V, 601.5 HPHZ, 3-PHASE1.5 HPASSIGNED MOTOR POWER AT 230/240 V, 601 HPHZ, 1-PHASE2 HPHZ, 3-PHASE2 HPHZ, 3-PHASE3 HPASSIGNED MOTOR POWER AT 230/240 V, 603 HPHZ, 3-PHASE3 HPASSIGNED MOTOR POWER AT 460/480 V, 603 HPHZ, 3-PHASE3 HPHZ, 3-PHASE3 HPCONVENTIONAL THERMAL CURRENT ITH THERMAL CURR	TEMPERATURE	-25 °C
TEMPERATURE - MIN-40 °CASSIGNED MOTORPOWER AT 115/120 V, 600.25 HPPOWER AT 115/120 V, 600.25 HPHZ, 1-PHASE1.5 HPASSIGNED MOTORPOWER AT 200/208 V, 601 HPHZ, 3-PHASE1ASSIGNED MOTORPOWER AT 230/240 V, 601 HPHZ, 1-PHASE2 HPHZ, 3-PHASE2 HPASSIGNED MOTORPOWER AT 230/240 V, 603 HPHZ, 3-PHASE3 HPASSIGNED MOTORPOWER AT 460/480 V, 603 HPHZ, 3-PHASE3 HPASSIGNED MOTORPOWER AT 575/600 V, 603 HPHZ, 3-PHASE40 ACONVENTIONAL40 ATHERMAL CURRENT ITH40 A(1-POLE, ENCLOSED)16 ACONVENTIONAL10 ATHERMAL CURRENT ITH10 ACONVENTIONAL10 ATHERMAL CURRENT ITH50 APOLE, OPEN)50 AEQUIPMENT HEAT50 A		80 °C
POWER AT 115/120 V, 600.25 HPHZ, 1-PHASE0.25 HPASSIGNED MOTORPOWER AT 200/208 V, 601.5 HPHZ, 3-PHASE1.5 HPASSIGNED MOTORPOWER AT 230/240 V, 601 HPHZ, 1-PHASE2 HPASSIGNED MOTORPOWER AT 230/240 V, 602 HPHZ, 3-PHASE3 HPASSIGNED MOTORPOWER AT 460/480 V, 603 HPHZ, 3-PHASE3 HPASSIGNED MOTORPOWER AT 575/600 V, 603 HPHZ, 3-PHASE3 HPCONVENTIONAL40 ATHERMAL CURRENT ITH16 A(1-POLE, ENCLOSED)10 ACONVENTIONAL19 ATHERMAL CURRENT ITH10 ACONVENTIONAL10 ATHERMAL CURRENT ITH50 AOCONVENTIONAL50 ATHERMAL CURRENT ITH50 A		-40 °C
POWER AT 200/208 V, 601.5 HPHZ, 3-PHASE1.5 HPASSIGNED MOTOR1 HPPOWER AT 230/240 V, 601 HPHZ, 1-PHASE2 HPASSIGNED MOTOR2 HPPOWER AT 230/240 V, 602 HPHZ, 3-PHASE3 HPASSIGNED MOTOR9 OWER AT 460/480 V, 60POWER AT 460/480 V, 603 HPHZ, 3-PHASE3 HPASSIGNED MOTOR9 OWER AT 575/600 V, 60POWER AT 575/600 V, 603 HPHZ, 3-PHASE40 ACONVENTIONAL40 ATHERMAL CURRENT ITH40 A(1-POLE, ENCLOSED)16 ACONVENTIONAL19 ATHERMAL CURRENT ITH19 AAT 55°C (3-POLE, OPEN)10 ACONVENTIONAL10 ATHERMAL CURRENT ITH50 APOLE, OPEN)50 AEQUIPMENT HEAT50 A	POWER AT 115/120 V, 60	0.25 HP
POWER AT 230/240 V, 601 HPHZ, 1-PHASE1 HPASSIGNED MOTOR2 HPPOWER AT 230/240 V, 602 HPHZ, 3-PHASE3 HPASSIGNED MOTOR3 HPPOWER AT 460/480 V, 603 HPHZ, 3-PHASE3 HPASSIGNED MOTOR3 HPPOWER AT 575/600 V, 603 HPHZ, 3-PHASE40 ACONVENTIONAL40 ATHERMAL CURRENT ITH40 A(1-POLE, ENCLOSED)16 ACONVENTIONAL19 ATHERMAL CURRENT ITH19 AAT 55°C (3-POLE, OPEN)10 ACONVENTIONAL10 ATHERMAL CURRENT ITH10 ACONVENTIONAL10 ACONVENTIONAL50 APOLE, OPEN)50 AEQUIPMENT HEAT50 A	POWER AT 200/208 V, 60	1.5 HP
POWER AT 230/240 V, 60 HZ, 3-PHASE2 HPASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE3 HPASSIGNED MOTOR POWER AT 575/600 V, 60 POWER AT 575/600 V, 60 ASSIGNED MOTOR POWER AT 575/600 V, 60 POWER AT 575/600 V, 60 CONVENTIONAL THERMAL CURRENT ITH THERMAL CURRENT ITH THAIN CONTACTS (1- POLE, OPEN)EQUIPMENT HEAT	POWER AT 230/240 V, 60	1 HP
POWER AT 460/480 V, 603 HPHZ, 3-PHASE3 HPASSIGNED MOTOR POWER AT 575/600 V, 603 HPPOWER AT 575/600 V, 603 HPHZ, 3-PHASE40 ACONVENTIONAL THERMAL CURRENT ITH40 A(1-POLE, ENCLOSED)16 ACONVENTIONAL THERMAL CURRENT ITH16 ACONVENTIONAL THERMAL CURRENT ITH19 ACONVENTIONAL THERMAL CURRENT ITH19 ACONVENTIONAL THERMAL CURRENT ITH10 ACONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)10 ACONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)50 AEQUIPMENT HEAT50 A	POWER AT 230/240 V, 60	2 HP
POWER AT 575/600 V, 603 HPPOWER AT 575/600 V, 603 HPHZ, 3-PHASE40 ACONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)40 ACONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)16 ACONVENTIONAL THERMAL CURRENT ITH THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)10 ACONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)10 ACONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)50 AEQUIPMENT HEAT50 A	POWER AT 460/480 V, 60	3 HP
THERMAL CURRENT ITH (1-POLE, ENCLOSED)40 ACONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)16 ACONVENTIONAL THERMAL CURRENT ITH THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)19 ACONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)10 ACONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)50 AEQUIPMENT HEAT50 A	POWER AT 575/600 V, 60	3 HP
THERMAL CURRENT ITH (3-POLE, ENCLOSED)16 ACONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)19 ACONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)10 ACONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)50 AEQUIPMENT HEAT	THERMAL CURRENT ITH	40 A
THERMAL CURRENT ITH19 AAT 55°C (3-POLE, OPEN)19 ACONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)10 ACONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)50 AEQUIPMENT HEAT50 A	THERMAL CURRENT ITH	16 A
THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)10 ACONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)50 AEQUIPMENT HEAT50 A	THERMAL CURRENT ITH	19 A
THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN) EQUIPMENT HEAT	THERMAL CURRENT ITH OF AUXILIARY CONTACTS	10 A
-	THERMAL CURRENT ITH OF MAIN CONTACTS (1-	50 A
DEPENDENT PVID	DISSIPATION, CURRENT-	0.6 W

HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	0.2 W
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	2, Terminal screw, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver
VOLTAGE TYPE	AC
DEGREE OF PROTECTION	IP20
MOUNTING POSITION	As required (except vertical with terminals A1/A2 at the bottom)
MOUNTING POSITION NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	As required (except vertical with terminals
NUMBER OF AUXILIARY CONTACTS (NORMALLY	As required (except vertical with terminals A1/A2 at the bottom)
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY	As required (except vertical with terminals A1/A2 at the bottom)
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)NUMBER OF CONTACTS (NORMALLY CLOSED) AS	As required (except vertical with terminals A1/A2 at the bottom) 0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACTNUMBER OF MAIN CONTACTS (NORMALLY)	As required (except vertical with terminals A1/A2 at the bottom) 0 1 0

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	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	24 V
OVERVOLTAGE CATEGORY	111
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	16 - 21 ms
LIFESPAN, MECHANICAL	150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A) 7,000,000 Operations (Coil 50/60 Hz) 10,000,000 Operations 200,000 Operations (at 240 V, AC-15)
PICK-UP VOLTAGE	0.8 - 1.1 V AC x Uc (voltage tolerance - dual frequency coil 50/60 Hz)
POWER CONSUMPTION, PICK-UP, 50 HZ	30 VA, AC, Dual-frequency coil at 50 Hz 26 W, AC, Dual-frequency coil at 50 Hz
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 auxiliary contacts, According to EN 61140 300 V AC, Between coil and auxiliary contacts, According to EN 61140

POWER CONSUMPTION, PICK-UP, 60 HZ	24 W, AC, Dual-frequency coil at 60 Hz 29 VA, AC, Dual-frequency coil at 60 Hz
SCREW SIZE	M3.5, Terminal screw
POWER CONSUMPTION, SEALING, 50 HZ	5.4 VA, Coil in a cold state and 1.0 x Us 1.8 W, Coil in a cold state and 1.0 x Us
POWER CONSUMPTION, SEALING, 60 HZ	 3.9 VA, AC, Dual-frequency coil at 60 Hz 5.4 VA, Coil in a cold state and 1.0 x Us 1.8 W, AC, Dual-frequency coil at 60 Hz 1.8 W, Coil in a cold state and 1.0 x Us
RATED OPERATIONAL CURRENT (IE)	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) 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)
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)	1 x (0.75 - 1.5) mm² 2 x (0.75 - 1.5) mm²
SHOCK RESISTANCE	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 without 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/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
2 x (0.75 - 2.5) mm² 1 x (0.75 - 2.5) mm²
18 - 14
15 A, Maximum motor rating (UL/CSA)
1.2 Nm, Screw terminals
0 V
0 V
690 V
110 A
22 A
6 A
3 A
1.5 A
6.6 A

RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V6.6 ARATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V6.6 ARATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V5.ARATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V3.5 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V5.ARATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V5.ARATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V5.ARATED OPERATIONAL CURRENT (IE) AT AC-4, 5.A5.ARATED OPERATIONAL CURRENT (IE) AT AC-4, 5.00 V3.7 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 5.00 V2.9 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 5.00 V2.0 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 1.0 V2.0 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 2.0 A2.0 ARATED OPERATIONAL POWER AT AC-3, 380/4		
CURRENT (IE) AT AC-3, 440 V6.6 ARATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V5.ARATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V3.5 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V5.ARATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V5.ARATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V5.ARATED OPERATIONAL CURRENT (IE) AT AC-4, 5.A5.ARATED OPERATIONAL CURRENT (IE) AT AC-4, 5.A3.7 ASO0 V2.9 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 5.00 V2.9 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 10 V2.0 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 12 O20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 22 O20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 24 20 A20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 60 20 A20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V20 ARATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ1.8 kWRATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ1.8 kW	CURRENT (IE) AT AC-3,	6.6 A
CURRENT (IE) AT AC-3, 500 V5 ARATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V3.5 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V5 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V5 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V5 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V5 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V3.7 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V2.9 ARATED OPERATIONAL CURRENT (IE) AT AC-1, 120 A20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 12 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 24 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 50 V20 ARATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ1.8 kWRATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ1.8 kW	CURRENT (IE) AT AC-3,	6.6 A
CURRENT (IE) AT AC-3, 660 V, 690 V3.5 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V5 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V5 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V5 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V3.7 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V3.7 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V2.9 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 700 V2.0 ARATED OPERATIONAL CURRENT (IE) AT DC-1, V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, V3. kW	CURRENT (IE) AT AC-3,	5 A
CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V5 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V5 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V5 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V3.7 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V2.9 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 12 20 A20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 24 20 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 24 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 26 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 26 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 26 V20 ARATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ1.8 kWRATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ1.8 kW	CURRENT (IE) AT AC-3,	3.5 A
CURRENT (IE) AT AC-4, 400 V5 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V5 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V3.7 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V2.9 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 10 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 12 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 12 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 22 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 24 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V20 ARATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)3.8W	CURRENT (IE) AT AC-4,	5 A
CURRENT (IE) AT AC-4, 440 V5 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V3.7 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V2.9 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 12 20 A20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 12 20 A20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 24 20 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 24 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V1.8 kWRATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ1.8 kW	CURRENT (IE) AT AC-4,	5 A
CURRENT (IE) AT AC-4, 500 V3.7 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V2.9 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 12 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 12 20 A20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 24 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 24 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 24 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V1.8 kWRATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ1.8 kW	CURRENT (IE) AT AC-4,	5 A
CURRENT (IE) AT AC-4, 660 V, 690 V2.9 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 12 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 24 220 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 24 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V20 ARATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)1.8 kWRATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ1.8 kW	CURRENT (IE) AT AC-4,	3.7 A
CURRENT (IE) AT DC-1, 110 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 12 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 24 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 24 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V20 ARATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)1.8 kWRATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ1.8 kW	CURRENT (IE) AT AC-4,	2.9 A
CURRENT (IE) AT DC-1, 12 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 24 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V20 ARATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)6.6 ARATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ1.8 kWRATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ1.8 kW	CURRENT (IE) AT DC-1,	20 A
CURRENT (IE) AT DC-1, 220 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 24 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V20 ARATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)6.6 ARATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ1.8 kWRATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ1.8 kW	CURRENT (IE) AT DC-1, 12	20 A
CURRENT (IE) AT DC-1, 2420 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V20 ARATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)6.6 ARATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ1.8 kWRATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ3 kW	CURRENT (IE) AT DC-1,	20 A
CURRENT (IE) AT DC-1, 60 V20 ARATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)6.6 ARATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ1.8 kWRATED OPERATIONAL B3 kW	CURRENT (IE) AT DC-1, 24	20 A
CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)6.6 ARATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ1.8 kWRATED OPERATIONAL B3 kW	CURRENT (IE) AT DC-1, 60	20 A
POWER AT AC-3, 240 V, 50 1.8 kW HZ RATED OPERATIONAL 3 kW	CURRENT FOR SPECIFIED	6.6 A
3 kW	POWER AT AC-3, 240 V, 50	1.8 kW
		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	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	8 ms

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 10 A fast, 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
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	24 V 50/60 Hz
ALTITUDE	Max. 2000 m
OPERATING VOLTAGE AT AC, 50 HZ - MIN	24 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

© 2025

Follow us on social media to get the latest product and support information.

