Eaton 051629

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

PRODUCT NAME	Eaton Moeller® series DILEEM Mini contactor
CATALOG NUMBER	051629
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 UL File No.: E29096 VDE 0660 CE CSA File No.: 012528 CSA-C22.2 No. 14-05 UL CSA Class No.: 3211-04 IEC/EN 60947 CSA 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.

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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	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-1: Non-inductive or slightly inductive loads, resistance furnaces AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, switch off during running
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 575/600 V, 603 HPHZ, 3-PHASE16 ACONVENTIONAL THERMAL CURRENT ITH HERMAL CURRENT ITH		
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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
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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	0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
VOLTAGE TYPE	AC
DEGREE OF PROTECTION	IP20
	As required (except
MOUNTING POSITION	As required (except vertical with terminals A1/A2 at the bottom)
MOUNTING POSITION NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	vertical with terminals
NUMBER OF AUXILIARY CONTACTS (NORMALLY	vertical with terminals A1/A2 at the bottom)
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY	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	vertical with terminals A1/A2 at the bottom) 1
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	vertical with terminals A1/A2 at the bottom) 1 0 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	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	16 - 21 ms
LIFESPAN, MECHANICAL	150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A) 200,000 Operations (at 240 V, AC-15) 7,000,000 Operations (Coil 50/60 Hz) 10,000,000 Operations
PICK-UP VOLTAGE	 1.1 V AC x Uc (voltage tolerance - dual frequency 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)
POWER CONSUMPTION, PICK-UP, 50 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 50/60 Hz
SAFE ISOLATION	300 V AC, Between coil and auxiliary contacts, According to EN 61140 300 V AC, Between coil

	EN 61140 300 V AC, Between auxiliary contacts, According to EN 61140 300 V AC, Between the contacts, According to EN 61140
POWER CONSUMPTION, PICK-UP, 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 50/60 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 24 V, DC L/R \leq 15 ms (with 1 contact 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)
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	10 A, 600 V AC, (UL/CSA) 0.5 A, 250 V DC, (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	P300, DC operated (UL/CSA) A600, AC operated (UL/CSA)
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (0.75 - 1.5) mm² 1 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/C 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 without auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 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 20 g, N/C auxiliary 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/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 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 20 g, N/O auxiliary contact, Basic unit withauxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 20 g, N/O auxiliary contact, Basic unit without auxiliary contact module, Mechanical, according to IEC/E
(SOLID)2 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 - MAX0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN690 VRATED INSULATION VOLTAGE (UI)690 VRATED INSULATION COS PHI TO IEC/EN 60947)22 ARATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V24 A
TERMINAL CAPACITY (SOLID) 1 x (0.75 - 2.5) mm ² 2 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) TIGHTENING TORQUE 1.2 Nm, Screw terminals RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX 0 V RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX 0 V RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN 690 V RATED OPTRATION VOLTAGE (UI) 110 A RATED MAKING CAPACITY UP TO 440 V (COS PHI TO IEC/EN 60947) 22 A RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V 6 A
ISOLID/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 - MIN0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN0 VRATED INSULATION VOLTAGE (UI)690 VRATED MAKING CAPACITY UP TO 440 V (COS PHI TO IEC/EN 60947)110 ARATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V22 ARATED OPERATIONAL CURRENT (IE) AT AC-15,6 A
(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 - MIN0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN0 VRATED INSULATION VOLTAGE (UI)690 VRATED MAKING CAPACITY UP TO 440 V (COS PHI TO IEC/EN 60947)110 ARATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V22 ARATED OPERATIONAL CURRENT (IE) AT AC-15,6 A
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN0 VRATED INSULATION VOLTAGE (UI)690 VRATED MAKING CAPACITY UP TO 440 V (COS PHI TO IEC/EN 60947)110 ARATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V22 ARATED OPERATIONAL CURRENT (IE) AT AC-15,6 A
VOLTAGE (US) AT DC - MAX0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN0 VRATED INSULATION VOLTAGE (UI)690 VRATED MAKING CAPACITY UP TO 440 V (COS PHI TO IEC/EN 60947)110 ARATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V22 ARATED OPERATIONAL CURRENT (IE) AT AC-15,6 A
VOLTAGE (US) AT DC - MIN0 VRATED INSULATION VOLTAGE (UI)690 VRATED MAKING CAPACITY UP TO 440 V (COS PHI TO IEC/EN 60947)110 ARATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V22 ARATED OPERATIONAL CURRENT (IE) AT AC-15,6 A
NOLTAGE (UI)690 VRATED MAKING CAPACITY UP TO 440 V (COS PHI TO IEC/EN 60947)110 ARATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V22 ARATED OPERATIONAL CURRENT (IE) AT AC-15,6 A
CAPACITY UP TO 440 V (COS PHI TO IEC/EN 60947)110 ARATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V22 ARATED OPERATIONAL CURRENT (IE) AT AC-15,6 A
CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V 22 A RATED OPERATIONAL CURRENT (IE) AT AC-15, 6 A
CURRENT (IE) AT AC-15, 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	20 A

V	
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 V, 50 HZ	3 kW
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 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	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 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
(TYPE 1 COORDINATION)	20 A gG/gL 10 A gG/gL
(TYPE 1 COORDINATION) AT 500 V SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION)	
(TYPE 1 COORDINATION) AT 500 V SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 500 V CONVENTIONAL THERMAL CURRENT ITH	10 A gG/gL
(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
(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 3.3 kW

POWER AT AC-3, 690 V, 50 HZ	
ACTUATING VOLTAGE	24 V 50 Hz
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:

:



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