Eaton 199229

Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 4 kW, 1 N/O, 230 V 50 Hz, 240 V 60 Hz, AC operation, Push in terminals

PRODUCT NAME	Eaton Moeller® series DILM contactor
CATALOG NUMBER	199229
PRODUCT LENGTH/DEPTH	75 mm
PRODUCT HEIGHT	68 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.225 kg
CERTIFICATIONS	VDE 0660 IEC/EN 60947 UL Listed CSA certified UL Category Control No.: NLDX CE marking UL File No.: E29096 CSA Class No.: 2411-03, 3211-04 CSA File No.: 012528
CATALOG NOTES	Also tested according to AC-3e.



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.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
10.3 DEGREE OF PROTECTION OF	Does not apply, since the entire switchgear needs to

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MCAD MODEL

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ASSEMBLIES	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	Is the panel builder's responsibility.
OPERATING FREQUENCY	9000 mechanical Operations/h (AC operated)
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
CONNECTION TO SMARTWIRE-DT	No
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	Push in terminals
FRAME SIZE	FS1
AMBIENT OPERATING TEMPERATURE - MAX	60 °C

TEMPERATURE - MIN	
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	3 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	7.5 HP
CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	45 A
CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)	18 A
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	21 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)	50 A
HEAT DISSIPATION CAPACITY PDISS	0 W
APPLICATION	Contactors for Motors
PRODUCT CATEGORY	Contactors
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when

	actuated from front (EN 50274)
ARCING TIME	10 ms
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Push-in connection
SCREWDRIVER SIZE	3 x 0.5 mm, Terminal screw 3.0 x 0.5 mm, Terminal screw
VOLTAGE TYPE	AC
DEGREE OF PROTECTION	IP20
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 BREAKING CAPACITY AT 220/230 V	90 A
RATED BREAKING CAPACITY AT 380/400 V	90 A
RATED BREAKING CAPACITY AT 500 V	70 A
RATED BREAKING CAPACITY AT 660/690 V	50 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	230 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	230 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	240 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	240 V
OVERVOLTAGE CATEGORY	III

DUTY FACTOR	100 %
EMITTED INTERFERENCE	According to EN 60947-1
INTERFERENCE IMMUNITY	According to EN 60947-1
LIFESPAN, MECHANICAL	10,000,000 Operations (AC operated)
PICK-UP VOLTAGE	0.8 - 1.1 V AC x Uc
POWER CONSUMPTION, PICK-UP, 50 HZ	24 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
SAFE ISOLATION	400 V AC, Between coil and contacts, According to EN 61140 400 V AC, Between the contacts, According to EN 61140
POWER CONSUMPTION, PICK-UP, 60 HZ	30 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
POWER CONSUMPTION, SEALING, 50 HZ	3.4 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 1.4 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
POWER CONSUMPTION, SEALING, 60 HZ	4.4 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 1.4 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
TERMINAL CAPACITY (FLEXIBLE WITH UNISOLATED FERRULE)	1 x (0.5 - 2.5) mm² 2 x (0.5 - 2.5) mm²
TERMINAL CAPACITY (FLEXIBLE WITH ULTRASONIC WELDED CABLE END)	1 x (0.5 - 2.5) mm² 2 x (0.5 - 2.5) mm²
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	1 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 (0.5 - 2.5) mm² 2 x (0.5 - 1.5) mm²

	IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 3.4 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop- mounted, Half-sinusoidal shock 10 ms 5.7 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half- sinusoidal shock 10 ms 3.4 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half- sinusoidal shock 10 ms 3.4 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop- mounted, Half-sinusoidal shock 10 ms
TERMINAL CAPACITY (SOLID)	1 x (0.5 - 2.5) mm² 2 x (0.5 - 2.5) mm²
TERMINAL CAPACITY (SOLID/STRANDED AWG)	20 - 14
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	20 A, Maximum motor rating (UL/CSA)
TERMINAL CAPACITY (FLEXIBLE)	1 x (0.5 - 2.5) mm² 2 x (0.5 - 2.5) mm²
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 MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947)	112 A
RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	22 A
RATED OPERATIONAL CURRENT (IE) AT AC-3,	9 A

220 V, 230 V, 240 V	
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	7 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	5 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	6 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	6 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	6 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	5 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	4.5 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V	20 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V	15 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V	20 A
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	3 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	4 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	5.5 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	1.5 kW
RATED OPERATIONAL	1.6 kW

POWER AT AC-4, 240 V, 50 HZSummary and the second		
POWER AT AC-4, 380/400 V, 50 HZ2.5 kWRATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ2.8 kWRATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ3 kWRATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ3.6 kWRATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ0 kWRATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ0 kWRATED OPERATIONAL POWER (NEMA)0 kWSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX18 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX18 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX10 kA, 20 A CLASS Imax. fux, 50CCR (UL/CSA) skA, 30 A max. CB, SCCR (UL/CSA) skA, 30 A MAX. SCCR (UL/CSA) skA, 30 A CLASS IMAX. fux, fuse, SCCR (UL/CSA) skA		
POWER AT AC-4, 415 V, 50 HZ2.8 kWRATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ3 kWRATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ3.6 kWRATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ3.6 kWRATED OPERATIONAL POWER (NEMA)0 kWRATED OPERATIONAL POWER (NEMA)0 kWRATED OPERATIONAL VOLTAGE (UE) AT AC - MAX690 VSKITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN10 mmSWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN13 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN9 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN5 kA, 30 A max. fuse, SCCR (UL/CSA) S A max. CB, SCCR (UL/CSA) S A max. CB, SCCR (UL/CSA) S KA, 30 A max. CB, SCCR (UL/CSA)	POWER AT AC-4, 380/400	2.5 kW
POWER AT AC-4, 440 V, 50 HZ3 kWRATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ2.8 kWRATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ3.6 kWRATED OPERATIONAL POWER (NEMA)0 kWRATED OPERATIONAL VOLTAGE (UE) AT AC-1 MAX690 VSTRIPPING LENGTH (MAIN CABLE)10 mmSWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN11 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN18 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN9 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN5 kA, 30 A max. fuse, SCCR (UL/CSA) S kA, 30 A max. CB, SCCR (UL/CSA) S kA, 30 A max. SCRSHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 80 V)100 kA, 20 A CLASS J max. fuse, SCCR (UL/CSA) S0 kA, 25 A CLASS RK5 max. fuse, SCCR (UL/CSA)	POWER AT AC-4, 415 V, 50	2.8 kW
POWER AT AC-4, 500 V, 50 HZ2.8 kWRATED OPERATIONAL POWER AT AC-4, 660/6900 V, 50 HZ3.6 kWRATED OPERATIONAL POWER (NEMA)0 kWRATED OPERATIONAL VOLTAGE (UE) AT AC- MAX690 VRESISTANCE PER POLE2.5 mΩSTRIPPING LENGTH (MAIN CABLE)10 mmSWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX11 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN18 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN18 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN18 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN10 mmSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX10 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN10 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN10 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN10 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN100 kA, 20 A CLASS J max.SHORT-CIRCUIT CURRENT RATING (BASIC RATING)100 kA, 20 A CLASS J max.SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)100 kA, 25 A CLASS RKS max. fuse, SCCR (UL/CSA)	POWER AT AC-4, 440 V, 50	3 kW
POWER AT AC-4, 660/6903.6 kWRATED OPERATIONAL POWER (NEMA)0 kWRATED OPERATIONAL VOLTAGE (UE) AT AC - MAX690 VRESISTANCE PER POLE2.5 mΩSTRIPPING LENGTH (MAIN CABLE)10 mmSWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX21 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX15 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN18 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN9 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN5 kA, 30 A max. fuse, SCCR (UL/CSA) S kA, 30 A max. CB, SCCR (UL/CSA) 30 kA, 25 A CLASS J max. fuse, SCCR (UL/CSA) 30 kA, 25 A CLASS RK5 max. fuse, SCCR (UL/CSA)	POWER AT AC-4, 500 V, 50	2.8 kW
POWER (NEMA)0 kWPOWER (NEMA)0 kWRATED OPERATIONAL VOLTAGE (UE) AT AC - MAX690 VRESISTANCE PER POLE2.5 mΩSTRIPPING LENGTH (MAIN CABLE)10 mmSWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX21 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX15 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN9 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX5 kA, 30 A max. fuse, SCCRSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX10 mmSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX10 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN10 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN10 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN100 kA, 20 A CLASS J max. fuse, SCCR (UL/CSA) 30 kA, 25 A CLASS RK5 max. fuse, SCCR (UL/CSA)	POWER AT AC-4, 660/690	3.6 kW
VOLTAGE (UE) AT AC - MAX690 VRESISTANCE PER POLE2.5 mΩSTRIPPING LENGTH (MAIN CABLE)10 mmSWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX21 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX15 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN18 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN9 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX9 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX5 kA, 30 A max. fuse, SCCR (UL/CSA) 5 kA, 30 A max. CB, SCCR (UL/CSA) 5 kA, 30 A max. CB, SCCR (UL/CSA) 30 kA, 25 A CLASS J max. fuse, SCCR (UL/CSA) 30 kA, 25 A CLASS RK5 max. fuse, SCCR (UL/CSA)		0 kW
And the initial initia	VOLTAGE (UE) AT AC -	690 V
I0 mm(MAIN CABLE)10 mmSWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX21 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN15 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN18 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX9 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX9 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX9 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN5 kA, 30 A max. fuse, SCCR (UL/CSA)SHORT-CIRCUIT CURRENT RATING (BASIC RATING)100 kA, 20 A CLASS J max. fuse, SCCR (UL/CSA) 30 kA, 25 A CLASS RK5 max. fuse, SCCR (UL/CSA)	RESISTANCE PER POLE	2.5 mΩ
OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX21 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN15 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX18 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX9 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX5 kA, 30 A max. fuse, SCCR (UL/CSA)SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN5 kA, 30 A max. fuse, SCCR (UL/CSA)SHORT-CIRCUIT CURRENT RATING (BASIC RATING)100 kA, 20 A CLASS J max. fuse, SCCR (UL/CSA) 30 kA, 25 A CLASS RK5 max. fuse, SCCR (UL/CSA)		10 mm
OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN15 msSWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX18 msSWITCHING TIME (AC OPERATED, MAKE OPERATED, MAKE OPERATED, MAKE SHORT-CIRCUIT CURRENT RATING (BASIC RATING)5 kA, 30 A max. fuse, SCCR (UL/CSA) 5 kA, 30 A max. CB, SCCR (UL/CSA) 5 kA, 30 A max. CB, SCCR (UL/CSA) 5 kA, 30 A max. CB, SCCR (UL/CSA)SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT100 kA, 20 A CLASS J max. fuse, SCCR (UL/CSA) 30 kA, 25 A CLASS RK5 max. fuse, SCCR (UL/CSA)	OPERATED, MAKE CONTACTS, CLOSING	21 ms
OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX18 msSWITCHING TIME (AC OPERATED, MAKE 	OPERATED, MAKE CONTACTS, CLOSING	15 ms
OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN9 msSHORT-CIRCUIT CURRENT RATING (BASIC RATING)5 kA, 30 A max. fuse, SCCR 	OPERATED, MAKE CONTACTS, OPENING	18 ms
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)(UL/CSA)SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)100 kA, 20 A CLASS J max. 	OPERATED, MAKE CONTACTS, OPENING	9 ms
SHORT-CIRCUIT CURRENTfuse, SCCR (UL/CSA)RATING (HIGH FAULT AT30 kA, 25 A CLASS RK5480 V)max. fuse, SCCR (UL/CSA)		(UL/CSA) 5 kA, 30 A max. CB, SCCR
··· , · · · , · · · , · · · ·	RATING (HIGH FAULT AT	fuse, SCCR (UL/CSA) 30 kA, 25 A CLASS RK5

	(UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	100 kA, 20 A CLASS J max. fuse, SCCR (UL/CSA) 30 kA, 25 A CLASS RK5 max. fuse, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V	35 A gG/gL
SUITABLE FOR	Also motors with efficiency class IE3
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V	20 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V	20 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V	16 A gG/gL
SPECIAL PURPOSE RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS	18 A (480V 60Hz 3phase, 277V 60Hz 1phase) 18 A (600V 60Hz 3phase, 347V 60Hz 1phase)
SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING	54 A, LRA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 9 A, FLA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA)
SPECIAL PURPOSE RATING OF ELEVATOR CONTROL	2 HP, 200 V 60 Hz 3-ph, (UL/CSA) 2 HP, 240 V 60 Hz 3-ph, (UL/CSA) 4.8 A, 480 V 60 Hz 3-ph, (UL/CSA) 7.8 A, 200 V 60 Hz 3-ph, (UL/CSA) 6.8 A, 240 V 60 Hz 3-ph, (UL/CSA) 3 HP, 480 V 60 Hz 3-ph, (UL/CSA) 5 HP, 600 V 60 Hz 3-ph, (UL/CSA) 6.1 A, 600 V 60 Hz 3-ph, (UL/CSA)
SPECIAL PURPOSE RATING OF REFRIGERATION CONTROL (CSA ONLY)	10 A, FLA 480 V 60 Hz 3phase; (CSA) 10 A, FLA 600 V 60 Hz 3phase; (CSA)

	60 A, LRA 480 V 60 Hz 3phase; (CSA) 60 A, LRA 600 V 60 Hz 3phase; (CSA)
SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING	18 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 18 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS	14 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
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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