

Eaton 290054

Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 7.5 kW, 1 N/O, 42 V 50 Hz, 48 V 60 Hz, AC operation, Screw terminals DILM15-10(42V50HZ,48V60HZ)

PRODUCT NAME Eaton Moeller® series DILM contactor CATALOG NUMBER 290054 PRODUCT LENGTH/DEPTH PRODUCT HEIGHT 68 mm PRODUCT WIDTH 45 mm PRODUCT WEIGHT 0.24 kg COMPLIANCES CE Marked UL 508 CSA Std. C22.2 No. 14-05 EN 60947-4-1 IEC 60947-4-1 VDE CSA File No : 012528		
PRODUCT NAME CATALOG NUMBER 290054 PRODUCT LENGTH/DEPTH PRODUCT HEIGHT PRODUCT WIDTH 45 mm PRODUCT WEIGHT 0.24 kg COMPLIANCES CE Marked UL 508 CSA Std. C22.2 No. 14-05 EN 60947-4-1 IEC 60947-4-1 VDE		
PRODUCT LENGTH/DEPTH 75 mm PRODUCT HEIGHT 68 mm PRODUCT WIDTH 45 mm PRODUCT WEIGHT 0.24 kg COMPLIANCES CE Marked UL 508 CSA Std. C22.2 No. 14-05 EN 60947-4-1 IEC 60947-4-1 VDE	PRODUCT NAME	
## The image of th	CATALOG NUMBER	290054
PRODUCT WIDTH 45 mm PRODUCT WEIGHT 0.24 kg COMPLIANCES CE Marked UL 508 CSA Std. C22.2 No. 14-05 EN 60947-4-1 IEC 60947-4-1 VDE		75 mm
PRODUCT WEIGHT 0.24 kg COMPLIANCES CE Marked UL 508 CSA Std. C22.2 No. 14-05 EN 60947-4-1 IEC 60947-4-1 VDE	PRODUCT HEIGHT	68 mm
COMPLIANCES CE Marked UL 508 CSA Std. C22.2 No. 14-05 EN 60947-4-1 IEC 60947-4-1 VDE	PRODUCT WIDTH	45 mm
UL 508 CSA Std. C22.2 No. 14-05 EN 60947-4-1 IEC 60947-4-1 VDE	PRODUCT WEIGHT	0.24 kg
CSA Std. C22.2 No. 14-05 EN 60947-4-1 IEC 60947-4-1 VDE	COMPLIANCES	CE Marked
UL Category Control No.: NLDX CE UL File No.: E29096 VDE 0660 CSA Class No.: 2411-03, 3211-04 CSA-C22.2 No. 14-05 IEC/EN 60947-4-1 IEC/EN 60947 UL CSA	CERTIFICATIONS	CSA Std. C22.2 No. 14-05 EN 60947-4-1 IEC 60947-4-1 VDE CSA File No.: 012528 UL Category Control No.: NLDX CE UL File No.: E29096 VDE 0660 CSA Class No.: 2411-03, 3211-04 CSA-C22.2 No. 14-05 IEC/EN 60947-4-1 IEC/EN 60947 UL
CATALOG NOTES Contacts according to EN 50012	CATALOG NOTES	_



ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT	Screw connection
AMPERAGE RATING	15.50A
NUMBER OF POLES	Three-pole
VOLTAGE RATING	42-48 V
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.

CHARACTERISTIC CURVE	eaton-contactors-switch- dilm-characteristic- curve.eps
	eaton-contactors-switch- dilm-characteristic-curve- 002.eps
DECLARATIONS OF CONFORMITY	eaton-contactor- declaration-of-conformity- uk251209en.pdf
00000	eaton-contactors-dila- dilm7-15-dilmp20- il03407013z.pdf
000	eaton-contactors-contact- dilm-wiring-diagram.eps
	eaton-contactors-module- dilm-dimensions.eps
	eaton-contactors-module- dilm-dimensions-002.eps
	<u>eaton-contactors-frame-</u> <u>dilm-dimensions.eps</u>
	eaton-contactors-dilm-3d- drawing-007.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.
FREQUENCY RATING	50-60 Hz
OPERATING FREQUENCY	5000 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
	IEC 60068-2-78 Damp heat, cyclic, to IEC
CLIMATIC PROOFING CONNECTION TO	IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
CLIMATIC PROOFING CONNECTION TO SMARTWIRE-DT RATED IMPULSE WITHSTAND VOLTAGE	IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
CLIMATIC PROOFING CONNECTION TO SMARTWIRE-DT RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 No 8000 V AC 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,
CLIMATIC PROOFING CONNECTION TO SMARTWIRE-DT RATED IMPULSE WITHSTAND VOLTAGE (UIMP) UTILIZATION CATEGORY	IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 No 8000 V AC 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
CLIMATIC PROOFING CONNECTION TO SMARTWIRE-DT RATED IMPULSE WITHSTAND VOLTAGE (UIMP) UTILIZATION CATEGORY CONNECTION	IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 No 8000 V AC 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

TEMPERATURE - MAX	
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	1 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	5 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	3 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	5 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	10 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	10 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
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	0.5 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	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
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
OPERATING TEMPERATURE - MAX	60 °C
OPERATING TEMPERATURE - MIN	-25 °C
RATED BREAKING CAPACITY AT 220/230 V	124 A
RATED BREAKING CAPACITY AT 380/400 V	124 A
RATED BREAKING CAPACITY AT 500 V	100 A
RATED BREAKING CAPACITY AT 660/690 V	70 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	42 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	42 V

RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	48 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	48 V
CONTACT CONFIGURATION	1 NO
DROP-OUT VOLTAGE	AC operated: 0.6 - 0.3 x UC, AC operated
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 the contacts, According to EN 61140 400 V AC, Between coil and 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
SCREW SIZE	M3.5, Terminal screw
POWER CONSUMPTION, SEALING, 50 HZ	1.4 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 3.4 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
POWER CONSUMPTION, SEALING, 60 HZ	1.4 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 4.4 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
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)	P300, DC operated (UL/CSA) A600, AC operated (UL/CSA)
TERMINAL CAPACITY	1 x (0.75 - 2.5) mm ²

(FLEXIBLE WITH FERRULE)	2 x (0.75 - 2.5) mm ² 2 x (0.75 - 2,5) mm ²
SHOCK RESISTANCE	3.4 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, 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/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 4) mm ² 2 x (0.75 - 2.5) mm ²
TERMINAL CAPACITY (SOLID/STRANDED AWG)	Single 18 - 10, double 18 - 14
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	20 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 - MIN	0 V
RATED INSULATION VOLTAGE (UI)	690 V
RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947)	155 A
RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	22 A
RATED OPERATIONAL	15.5 A

CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	15.5 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	15.5 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	12.5 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	9 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	7 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	7 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	7 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	6 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	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 CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	15.5 A
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	4.6 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	7.5 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	8 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	2 kW

RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	2.2 kW
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	3 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	3.4 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	3.6 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	3.5 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	4.4 kW
RATED OPERATIONAL POWER (NEMA)	7.4 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RESISTANCE PER POLE	2.5 mΩ
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	1.4 W
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	10 mm
STRIPPING LENGTH (MAIN CABLE)	10 mm
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	21 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	15 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	18 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	9 ms
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	5 kA, 45 A max. fuse, SCCR (UL/CSA) 5 kA, 45 A max. CB, SCCR (UL/CSA)

SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)	100 kA, 60 A CLASS J max. fuse, SCCR (UL/CSA) 30 kA, 25 A CLASS RK5 max. fuse, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	100 kA, 60 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	63 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V	50 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	20 A gG/gL
SPECIAL PURPOSE RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS	20 A (600V 60Hz 3phase, 347V 60Hz 1phase) 20 A (480V 60Hz 3phase, 277V 60Hz 1phase)
SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING	90 A, LRA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 15 A, FLA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA)
SPECIAL PURPOSE RATING OF ELEVATOR CONTROL	7.8 A, 200 V 60 Hz 3-ph, (UL/CSA) 3 HP, 240 V 60 Hz 3-ph, (UL/CSA) 9.6 A, 240 V 60 Hz 3-ph, (UL/CSA) 11 A, 480 V 60 Hz 3-ph, (UL/CSA) 7.5 HP, 480 V 60 Hz 3-ph, (UL/CSA) 2 HP, 200 V 60 Hz 3-ph, (UL/CSA) 7.5 HP, 600 V 60 Hz 3-ph, (UL/CSA) 9 A, 600 V 60 Hz 3-ph, (UL/CSA)
SPECIAL PURPOSE RATING OF REFRIGERATION CONTROL (CSA ONLY)	10 A, FLA 600 V 60 Hz 3phase; (CSA) 60 A, LRA 480 V 60 Hz 3phase; (CSA) 10 A, FLA 480 V 60 Hz 3phase; (CSA)

SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS OPERATING CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ RATED OPERATING VOLTAGE AL V 50 Hz, 48 V 60 Hz Max. 2000 m OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 60 HZ - MIN OPERATING VOLTAGE AT AC, 60 HZ - MIN AC 60 HZ - MIN ON A 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 20 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 21 A, 48 0 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 24 V OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 60 HZ - MIN	SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS OPERATING CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE ACTUATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT		
SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS SPECIAL PURPOSE RATING OF TUNGSTEN IV 60 Hz 1phase, (UL/CSA) 14 A, 480 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 14 A, 480 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 14 A, 480 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 14 A, 480 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 14 A, 480 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 14 A, 480 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 14 A, 480 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 14 A, 480 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 14 A, 480 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 1	SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS OPERATING TEMPERATURE CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE ALTITUDE Max. 2000 m OPERATING VOLTAGE AT AC, 50 Hz - MIN OPERATING VOLTAGE AT AC, 60 Hz 1phase, (UL/CSA) 14 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 1phase, (UL/CSA) 14 A, 480 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 1phase, (UL/CSA) 14		
SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS OPERATING TEMPERATURE CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX	SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS OPERATING TEMPERATURE CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE ALTITUDE Max. 2000 m OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 60 HZ - MIN	RATING OF RESISTANCE	277 V 60 Hz 1phase, (UL/CSA) 20 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase,
TEMPERATURE CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE ALTITUDE Max. 2000 m OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX	TEMPERATURE CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE ALTITUDE Max. 2000 m OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 60 HZ - MIN OPERATIN	RATING OF TUNGSTEN	277 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase,
THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE ALTITUDE Max. 2000 m OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT AC, 50 HZ - MAX	THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE 42 V 50 Hz, 48 V 60 Hz ALTITUDE Max. 2000 m OPERATING VOLTAGE AT AC, 50 Hz - MIN OPERATING VOLTAGE AT AC, 50 Hz - MAX OPERATING VOLTAGE AT AC, 60 Hz - MIN		-25° to 60°C
THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE 42 V 50 Hz, 48 V 60 Hz ALTITUDE Max. 2000 m OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT AC, 50 HZ - MAX	THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE 42 V 50 Hz, 48 V 60 Hz ALTITUDE Max. 2000 m OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT AC, 60 HZ - MIN	THERMAL CURRENT ITH	22 A
THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE 42 V 50 Hz, 48 V 60 Hz ALTITUDE Max. 2000 m OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT 24 V	THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE 42 V 50 Hz, 48 V 60 Hz ALTITUDE Max. 2000 m OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT AC, 60 HZ - MIN	THERMAL CURRENT ITH	21 A
POWER AT AC-3, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE 42 V 50 Hz, 48 V 60 Hz ALTITUDE Max. 2000 m OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT 24 V	POWER AT AC-3, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE ALTITUDE OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT AC, 60 HZ - MIN	THERMAL CURRENT ITH	20 A
POWER AT AC-3, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE ALTITUDE Max. 2000 m OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX	POWER AT AC-3, 500 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE ALTITUDE OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 60 HZ - MIN	POWER AT AC-3, 440 V, 50	8.4 kW
POWER AT AC-3, 690 V, 50 T kW HZ ACTUATING VOLTAGE 42 V 50 Hz, 48 V 60 Hz ALTITUDE Max. 2000 m OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT 24 V	POWER AT AC-3, 690 V, 50 HZ ACTUATING VOLTAGE ALTITUDE Max. 2000 m OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT AC, 60 HZ - MIN OPERATING VOLTAGE AT AC, 60 HZ - MIN OPERATING VOLTAGE AT AC, 60 HZ - MIN OPERATING VOLTAGE AT 690 V	POWER AT AC-3, 500 V, 50	7.5 kW
ALTITUDE Max. 2000 m OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT 24 V	ALTITUDE Max. 2000 m OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT AC, 60 HZ - MIN OPERATING VOLTAGE AT AC, 60 HZ - MIN OPERATING VOLTAGE AT 690 V	POWER AT AC-3, 690 V, 50	7 kW
OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT 24 V	OPERATING VOLTAGE AT AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT AC, 60 HZ - MIN OPERATING VOLTAGE AT 690 V	ACTUATING VOLTAGE	42 V 50 Hz, 48 V 60 Hz
AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT 24 V	AC, 50 HZ - MIN OPERATING VOLTAGE AT AC, 50 HZ - MAX OPERATING VOLTAGE AT AC, 60 HZ - MIN OPERATING VOLTAGE AT 690 V	ALTITUDE	Max. 2000 m
AC, 50 HZ - MAX OPERATING VOLTAGE AT 24 V	AC, 50 HZ - MAX OPERATING VOLTAGE AT AC, 60 HZ - MIN OPERATING VOLTAGE AT 690 V 690 V		24 V
24 V	AC, 60 HZ - MIN OPERATING VOLTAGE AT 690 V		690 V
	690 V		24 V
690 V			690 V

PROJECT NAME:	
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