

# Specifications

## Eaton 239577

Eaton Moeller® series DILM Contactor, 380 V 400 V 55 kW, 2 N/O, 2 NC, RAC 120: 110 - 120 V 50/60 Hz, AC operation, Screw terminals

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series DILM contactor
<b>CATALOG NUMBER</b>	239577
<b>MODEL CODE</b>	DILM115-22(RAC120)
<b>EAN</b>	4015082395773
<b>PRODUCT LENGTH/DEPTH</b>	175 mm
<b>PRODUCT HEIGHT</b>	170 mm
<b>PRODUCT WIDTH</b>	90 mm
<b>PRODUCT WEIGHT</b>	2.31 kg
<b>CERTIFICATIONS</b>	IEC/EN 60947 UL File No.: E29096 CE CSA-C22.2 No. 14-05 UL UL 508 CSA Class No.: 2411-03, 3211-04 UL Category Control No.: NLDX CSA File No.: 012528 IEC/EN 60947-4-1 VDE 0660 CSA
<b>CATALOG NOTES</b>	Contacts according to EN 50012
<b>GLOBAL CATALOG</b>	239577

## Product specifications

### 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.

## Resources

[SmartWire-DT Catalog](#)

[Product Range Catalog  
Switching and protecting  
motors](#)

### CATALOGS

[eaton-product-overview-  
for-machinery-catalogue-  
ca08103003zen-en-us.pdf](#)

[eaton-contactors-short-  
time-loading-dilm-  
characteristic-curve-  
002.eps](#)

[eaton-contactors-short-  
time-loading-dilm-  
characteristic-curve.eps](#)

### CHARACTERISTIC CURVE

[eaton-contactors-switch-  
dilm-characteristic-curve-  
002.eps](#)

[eaton-contactors-  
component-dilm-  
characteristic-curve-  
003.eps](#)

[eaton-contactors-switch-  
dilm-characteristic-  
curve.eps](#)

### DECLARATIONS OF CONFORMITY

[DA-DC-00004781.pdf](#)

[DA-DC-00004818.pdf](#)

[eaton-contactors-  
mounting-dilm-  
dimensions-002.eps](#)

[eaton-contactors-dilm-  
dimensions-011.eps](#)

[eaton-contactors-  
mounting-dilm-  
dimensions.eps](#)

### DRAWINGS

[eaton-contactors-dilm-  
dimensions-003.eps](#)

[eaton-contactors-dilm-3d-  
drawing.eps](#)

[eaton-contactors-  
complete-unit-dilms-  
safety-3d-drawing.eps](#)

[eaton-general-ie-ready-  
dilm-contactor-  
standards.eps](#)

<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>FITTED WITH:</b>	Mirror contact Suppressor circuit in actuating electronics
<b>OPERATING FREQUENCY</b>	3600 mechanical Operations/h (AC operated)
<b>POLLUTION DEGREE</b>	3
<b>CLIMATIC PROOFING</b>	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	8000 V AC
<b>UTILIZATION CATEGORY</b>	AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-4: Normal AC induction motors: starting, plugging, reversing, inching
<b>CONNECTION</b>	Screw terminals

<b>ECAD MODEL</b>	<a href="#">ETN.239577.edz</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">eaton-dil-contactors-instruction-leaflet-il03407039z.pdf</a>
<b>INSTALLATION VIDEOS</b>	<a href="#">WIN-WIN with push-in technology</a>
<b>MCAD MODEL</b>	<a href="#">dil_m80_150_22.stp</a>
	<a href="#">DA-CD-dil_m80_170</a>
	<a href="#">dil_m80_150_22.dwg</a>
	<a href="#">DA-CS-dil_m80_170</a>
<b>WIRING DIAGRAMS</b>	<a href="#">2100SWI-125</a>

<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	60 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX</b>	40 °C
<b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN</b>	-25 °C
<b>AMBIENT STORAGE TEMPERATURE - MAX</b>	80 °C
<b>AMBIENT STORAGE TEMPERATURE - MIN</b>	-40 °C
<b>ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE</b>	10 HP
<b>ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE</b>	40 HP
<b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE</b>	25 HP
<b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE</b>	50 HP
<b>ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE</b>	100 HP
<b>ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE</b>	100 HP
<b>CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)</b>	285 A
<b>CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)</b>	115 A
<b>CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)</b>	135 A
<b>CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)</b>	325 A
<b>EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID</b>	18.9 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W

<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	6.3 W
<b>APPLICATION</b>	Contactors for Motors
<b>PRODUCT CATEGORY</b>	Contactors
<b>PROTECTION</b>	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
<b>ARCING TIME</b>	15 ms
<b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>	Screw connection
<b>SCREWDRIVER SIZE</b>	2, Terminal screw, Control circuit cables, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Control circuit cables, Standard screwdriver
<b>VOLTAGE TYPE</b>	AC
<b>DEGREE OF PROTECTION</b>	IP00
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	2
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	2
<b>NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)</b>	2
<b>NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT</b>	0
<b>NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)</b>	2
<b>NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)</b>	3
<b>RATED BREAKING CAPACITY AT 220/230 V</b>	1150 A
<b>RATED BREAKING CAPACITY AT 380/400 V</b>	1150 A
<b>RATED BREAKING CAPACITY AT 500 V</b>	1150 A
<b>RATED BREAKING CAPACITY AT 660/690 V</b>	1100 A

<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>	120 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>	100 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b>	120 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b>	100 V
<b>DROP-OUT VOLTAGE</b>	AC operated: 0.6 - 0.25 x UC, AC operated
<b>OVERVOLTAGE CATEGORY</b>	III
<b>DUTY FACTOR</b>	100 %
<b>EMITTED INTERFERENCE</b>	According to EN 60947-1
<b>INTERFERENCE IMMUNITY</b>	According to EN 60947-1
<b>LIFESPAN, MECHANICAL</b>	10,000,000 Operations (AC operated)
<b>PICK-UP VOLTAGE</b>	0.8 - 1.15 V AC x Uc
<b>POWER CONSUMPTION, PICK-UP, 50 HZ</b>	180 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
<b>SAFE ISOLATION</b>	690 V AC, Between coil and contacts, According to EN 61140 690 V AC, Between the contacts, According to EN 61140
<b>POWER CONSUMPTION, PICK-UP, 60 HZ</b>	170 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
<b>RESIDUAL CURRENT</b>	1 mA (with actuation of A1 - A2 by the electronics with "0" signal)
<b>SCREW SIZE</b>	5 mm AF, Hexagon socket-head spanner, Terminal screw, Main cables M10, Terminal screw, Main cables M3.5, Terminal screw, Control circuit cables
<b>POWER CONSUMPTION, SEALING, 50 HZ</b>	2.3 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 3.1 VA, Dual-frequency coil in a cold state and 1.0 x

	Us, at 50 Hz
<b>POWER CONSUMPTION, SEALING, 60 HZ</b>	2.3 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 3.1 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
<b>TERMINAL CAPACITY (STRANDED)</b>	1 x (16 - 95) mm <sup>2</sup> , Main cables 2 x (16 - 70) mm <sup>2</sup> , Main cables
<b>SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)</b>	1 A, 250 V DC, (UL/CSA) 15 A, 600 V AC, (UL/CSA)
<b>SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)</b>	P300, DC operated (UL/CSA) A600, AC operated (UL/CSA)
<b>TERMINAL CAPACITY (COPPER BAND)</b>	2 x (6 x 16 x 0.8) mm (Number of segments x width x thickness), Main cables
<b>TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)</b>	2 x (0.75 - 2.5) mm <sup>2</sup> , Control circuit cables 1 x (0.75 - 4) mm <sup>2</sup> , Control circuit cables 2 x (10 - 70) mm <sup>2</sup> , Main cables 1 x (10 - 95) mm <sup>2</sup> , Main cables
<b>SHOCK RESISTANCE</b>	10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half- sinusoidal shock 10 ms 5 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 7 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
<b>TERMINAL CAPACITY (SOLID)</b>	1 x (0.75 - 2.5) mm <sup>2</sup> , Control circuit cables 2 x (0.75 - 2.5) mm <sup>2</sup> , Control circuit cables
<b>TERMINAL CAPACITY (SOLID/STRANDED AWG)</b>	Single 8...3/0, double 8...2/0, Main cables 18 - 14, Control circuit cables
<b>SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)</b>	180 A, Maximum motor rating (UL/CSA)
<b>TIGHTENING TORQUE</b>	14 Nm, Screw terminals, Main cables 1.2 Nm, Screw terminals, Control circuit cables
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX</b>	0 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN</b>	0 V
<b>RATED INSULATION VOLTAGE (UI)</b>	690 V
<b>RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947)</b>	1610 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V</b>	160 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V</b>	115 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V</b>	115 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V</b>	115 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V</b>	115 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V</b>	93 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-4,</b>	55 A

<b>220 V, 230 V, 240 V</b>	
<b>RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V</b>	55 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V</b>	55 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V</b>	55 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V</b>	45 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V</b>	160 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V</b>	90 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V</b>	160 A
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	115 A
<b>RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ</b>	40 kW
<b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>	55 kW
<b>RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ</b>	70 kW
<b>RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ</b>	17 kW
<b>RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ</b>	19 kW
<b>RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ</b>	28 kW
<b>RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ</b>	33 kW
<b>RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ</b>	35 kW
<b>RATED OPERATIONAL</b>	40 kW

<b>POWER AT AC-4, 500 V, 50 HZ</b>	
<b>RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ</b>	43 kW
<b>RATED OPERATIONAL POWER (NEMA)</b>	74 kW
<b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b>	690 V
<b>RESISTANCE PER POLE</b>	0.6 mΩ
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	2.3 W
<b>STRIPPING LENGTH (CONTROL CIRCUIT CABLE)</b>	10 mm
<b>STRIPPING LENGTH (MAIN CABLE)</b>	24 mm
<b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX</b>	33 ms
<b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN</b>	28 ms
<b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX</b>	41 ms
<b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN</b>	35 ms
<b>SHORT-CIRCUIT CURRENT RATING (BASIC RATING)</b>	10 kA, SCCR (UL/CSA) 600 A, max. CB, SCCR (UL/CSA) 600 A, max. Fuse, SCCR (UL/CSA)
<b>SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)</b>	30/100 kA, Fuse, SCCR (UL/CSA) 65 kA, CB, SCCR (UL/CSA) 250 A, max. CB, SCCR (UL/CSA) 300/300 A, Class J, max. Fuse, SCCR (UL/CSA)
<b>SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)</b>	300/300 A, Class J, max. Fuse, SCCR (UL/CSA) 30 kA, CB, SCCR (UL/CSA)

	350 A, max. CB, SCCR (UL/CSA) 30/100 kA, Fuse, SCCR (UL/CSA)
<b>SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V</b>	250 A gG/gL
<b>SUITABLE FOR</b>	Also motors with efficiency class IE3
<b>SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V</b>	250 A gG/gL
<b>SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V</b>	250 A gG/gL
<b>SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V</b>	250 A gG/gL
<b>SPECIAL PURPOSE RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS</b>	160 A (480V 60Hz 3phase, 277V 60Hz 1phase) 160 A (600V 60Hz 3phase, 347V 60Hz 1phase)
<b>SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING</b>	115 A, FLA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 690 A, LRA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA)
<b>SPECIAL PURPOSE RATING OF ELEVATOR CONTROL</b>	99 A, 600 V 60 Hz 3-ph, (UL/CSA) 30 HP, 200 V 60 Hz 3-ph, (UL/CSA) 92 A, 200 V 60 Hz 3-ph, (UL/CSA) 75 HP, 480 V 60 Hz 3-ph, (UL/CSA) 96 A, 480 V 60 Hz 3-ph, (UL/CSA) 100 HP, 600 V 60 Hz 3-ph, (UL/CSA) 40 HP, 240 V 60 Hz 3-ph, (UL/CSA) 104 A, 240 V 60 Hz 3-ph, (UL/CSA)
<b>SPECIAL PURPOSE RATING OF REFRIGERATION CONTROL (CSA ONLY)</b>	84 A, FLA 480 V 60 Hz 3phase; (CSA) 540 A, LRA 600 V 60 Hz 3phase; (CSA) 540 A, LRA 480 V 60 Hz

	3phase; (CSA) 84 A, FLA 600 V 60 Hz 3phase; (CSA)
<b>SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING</b>	160 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 160 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)
<b>SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS</b>	160 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 160 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)
<b>CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)</b>	160 A
<b>CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)</b>	142 A
<b>CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)</b>	130 A
<b>RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ</b>	75 kW
<b>RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ</b>	85 kW
<b>RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ</b>	90 kW
<b>ACTUATING VOLTAGE</b>	RAC 120: 110 - 120 V 50/60 Hz
<b>ALTITUDE</b>	Max. 2000 m
<b>OPERATING VOLTAGE AT AC, 50 HZ - MIN</b>	230 V
<b>OPERATING VOLTAGE AT AC, 50 HZ - MAX</b>	690 V
<b>OPERATING VOLTAGE AT AC, 60 HZ - MIN</b>	230 V
<b>OPERATING VOLTAGE AT AC, 60 HZ - MAX</b>	690 V

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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