## Specifications



## Photo is representative





## Eaton 276958

Eaton Moeller® series DILMP Contactor, 4 pole, 22 A, 48 V 50 Hz, AC operation

General specification	าร
PRODUCT NAME	Eaton Moeller® series DILMP 4-pole contactor
CATALOG NUMBER	276958
MODEL CODE	DILMP20(48V50HZ)
EAN	4015082769581
PRODUCT LENGTH/DEPTH	75 mm
PRODUCT HEIGHT	68 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.236 kg
CERTIFICATIONS	UL Category Control No.: NLDX UL File No.: E29096 CSA CSA-C22.2 No. 60947-4-1- 14 CE CSA Class No.: 2411-03, 3211-04 IEC/EN 60947 IEC/EN 60947 UL VDE 0660 UL 60947-4-1 CSA File No.: 012528
CATALOG NOTES	Contacts according to EN 50012
GLOBAL CATALOG	276958



Product specifications	
NUMBER OF POLES	Four-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

Resources	
CATALOGS	SmartWire-DT Catalog
	eaton-product-overview- for-machinery-catalogue- ca08103003zen-en-us.pdf
	Product Range Catalog Switching and protecting motors
DECLARATIONS OF	DA-DC-00004810.pdf
CONFORMITY	DA-DC-00004792.pdf
DRAWINGS	eaton-contactors-dilm-dimensions-013.eps
	eaton-contactors- mounting-dilm- dimensions.eps
	eaton-contactors- mounting-dilm- dimensions-002.eps
	eaton-contactors-dilmp-dimensions-006.eps
	eaton-contactors- characteristic-curve- 2110dia-3.eps
	eaton-contactors-dilm-3d-drawing-007.eps
ECAD MODEL	ETN.276958.edz
INSTALLATION INSTRUCTIONS	eaton-contactors-dila- dilm7-15-dilmp20- il03407013z.pdf
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MCAD MODEL	DA-CS-dil m7 15  DA-CD-dil m7 15
WIRING DIAGRAMS	eaton-contactors-contact- dilem-wiring-diagram.eps

ASSEMBLIES  10.4 CLEARANCES AND CREEPAGE DISTANCES  10.5 PROTECTION AGAINST ELECTRIC SHOCK  10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS  10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS  10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS  10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH  10.9.3 IMPULSE WITHSTAND VOLTAGE  10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL  OPERATING FREQUENCY  POLLUTION DEGREE  CLIMATIC PROOFING  CONNECTION TO SMARTWIRE-DT  RATED IMPULSE WITHSTAND VOLTAGE  CUIMP)  UTILIZATION CATEGORY  CONNECTION TO SMARTWIRE-DT  RATED IMPULSE WITHSTAND VOLTAGE  UIMP)  AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces  CONNECTION SCIENCE MAX  AMBIENT OPERATING  MEETS the panel builder's responsibility.  Is the panel builder's respo		
CREEPAGE DISTANCES       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       Is the panel builder's responsibility.         10.9.2 POWER-FREQUENCY ELECTRIC STRENAL CONDUCTORS       Is the panel builder's responsibility.         10.9.3 IMPULSE WITHSTAND VOLTAGE       Is the panel builder's responsibility.         10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL       Is the panel builder's responsibility.         OPERATING FREQUENCY       5000 mechanical Operations/h (DC operated) 5000 mechanical Operations/h (AC operated)         POLLUTION DEGREE       3         CLIMATIC PROOFING       Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-3         CONNECTION TO SMARTWIRE-DT       No         RATED IMPULSE WITHSTAND VOLTAGE (UIMP)       8000 V AC         UTILIZATION CATEGORY (UIMP)       AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces         CONNECTION       Screw terminals         AMBIENT OPERATING TEMPERATURE - MAX       60 °C	ASSEMBLIES	be evaluated.
AGAINST ELECTRIC SHOCK  10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS  10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS  10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS  10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH  10.9.3 IMPULSE WITHSTAND VOLTAGE INSULATING MATERIAL  OPERATING FREQUENCY  CLIMATIC PROOFING  CUMATIC PROOFING  UTILIZATION CATEGORY  AMBIENT OPERATING CONNECTION  AMBIENT OPERATING CONNECTION  TOSMARTWIRE-DAT  AMBIENT OPERATING CONNECTION  TOSMARD CATEBORY  AND CONNECTION OF CATEBORY  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  Is the panel builder's responsi		·
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ELECTRICAL CIRCUITS AND CONNECTIONS  10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS  10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH  10.9.3 IMPULSE Is the panel builder's responsibility.  10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL  OPERATING FREQUENCY  OPERATING FREQUENCY  CLIMATIC PROOFING  CLIMATIC PROOFING  CONNECTION TO SMARTWIRE-DT  RATED IMPULSE WITHSTAND VOLTAGE  UITILIZATION CATEGORY  AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces  CONNECTION SCIEW HAMBIENT OPERATING TEMPERATURE - MAX  AMBIENT OPERATING TEMPERATURE - MAX  Is the panel builder's responsibility.  Is the panel builder's responsible to panel builder's responsibility.  Is the panel builder's re	SWITCHING DEVICES AND	entire switchgear needs to
EXTERNAL CONDUCTORS       responsibility.         10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH       Is the panel builder's responsibility.         10.9.3 IMPULSE WITHSTAND VOLTAGE       Is the panel builder's responsibility.         10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL       Is the panel builder's responsibility.         5000 mechanical Operations/h (DC operated) 5000 mechanical Operations/h (AC operated)       Operations/h (AC operated)         POLLUTION DEGREE       3         CLIMATIC PROOFING       Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-3         CONNECTION TO SMARTWIRE-DT       No         RATED IMPULSE WITHSTAND VOLTAGE (UIMP)       8000 V AC         UTILIZATION CATEGORY (UIMP)       AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces         CONNECTION       Screw terminals         AMBIENT OPERATING TEMPERATURE - MAX       60 °C	ELECTRICAL CIRCUITS	•
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WITHSTAND VOLTAGE       responsibility.         10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL       Is the panel builder's responsibility.         5000 mechanical Operations/h (DC operations/h (DC operations/h (DC operations/h (AC operated))         POLLUTION DEGREE       3         CLIMATIC PROOFING       Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-3         CONNECTION TO SMARTWIRE-DT       No         RATED IMPULSE WITHSTAND VOLTAGE (UIMP)       8000 V AC (UIMP)         AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces         CONNECTION       Screw terminals         AMBIENT OPERATING TEMPERATURE - MAX       60 °C	FREQUENCY ELECTRIC	•
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Operations/h (DC operated) 5000 mechanical Operations/h (AC operated) FOLLUTION DEGREE  CLIMATIC PROOFING  Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-3  CONNECTION TO No  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces  CONNECTION  AMBIENT OPERATING TEMPERATURE - MAX  Operations/h (DC operated)  A Operations/h (AC operated)  A C-3: Normal AC induction motors: starting, switch off during running  AC-1: Non-inductive or slightly inductive loads, resistance furnaces  CONNECTION  A C-3: Normal AC induction motors: starting, switch off during running  AC-1: Non-inductive or slightly inductive loads, resistance furnaces  CONNECTION  A C-3: Normal AC induction motors: starting, switch off during running  AC-1: Non-inductive or slightly inductive loads, resistance furnaces  CONNECTION  A C-3: Normal AC induction motors: starting, switch off during running  AC-1: Normal AC induction motors: starting, switch off during running  AC-1: Normal AC induction motors: starting, switch off during running  AC-1: Normal AC induction motors: starting, switch off during running  AC-1: Normal AC induction motors: starting, switch off during running  AC-1: Normal AC induction motors: starting running  AC-1: Normal AC induction motors: starting running  AC-1:	ENCLOSURES MADE OF	•
CLIMATIC PROOFING  Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-3  CONNECTION TO SMARTWIRE-DT  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces  CONNECTION  AMBIENT OPERATING TEMPERATURE - MAX  Damp heat, cyclic, to IEC 60068-2-3  AND IEC 60068-2-3  No  AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces  CONNECTION  AMBIENT OPERATING TEMPERATURE - MAX	OPERATING FREQUENCY	Operations/h (DC operated) 5000 mechanical Operations/h (AC
CLIMATIC PROOFING  60068-2-30 Damp heat, constant, to IEC 60068-2-3  CONNECTION TO SMARTWIRE-DT  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces  CONNECTION  Screw terminals  AMBIENT OPERATING TEMPERATURE - MAX  60 °C	POLLUTION DEGREE	3
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces  CONNECTION  Screw terminals  AMBIENT OPERATING TEMPERATURE - MAX	CLIMATIC PROOFING	60068-2-30 Damp heat, constant, to
WITHSTAND VOLTAGE (UIMP)  AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces  CONNECTION  AMBIENT OPERATING TEMPERATURE - MAX  Sometimes and sometimes are supported by the support of the s		No
UTILIZATION CATEGORYmotors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnacesCONNECTIONScrew terminalsAMBIENT OPERATING TEMPERATURE - MAX60 °C	WITHSTAND VOLTAGE	8000 V AC
AMBIENT OPERATING TEMPERATURE - MAX  60 °C	UTILIZATION CATEGORY	motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads,
TEMPERATURE - MAX 60 °C	CONNECTION	Screw terminals
AMRIENT OPERATING		60 °C
TEMPERATURE - MIN	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
CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	54 A
CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)	18 A
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	20.5 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)	60 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	3 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	1 W
APPLICATION	Contactors for 4 pole electric consumers
PRODUCT CATEGORY	Contactors
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
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	screwdriver AC

NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT	0
NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	4
RATED BREAKING CAPACITY AT 220/230 V	120 A
RATED BREAKING CAPACITY AT 380/400 V	120 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	48 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	48 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
DROP-OUT VOLTAGE	AC operated: 0.6 - 0.4 x UC, AC operated
OVERVOLTAGE CATEGORY	III
DUTY FACTOR	100 %
INTERFERENCE IMMUNITY	According to EN 60947-1
LIFESPAN, MECHANICAL	10,000,000 Operations (AC operated) 10,000,000 Operations (DC operated)
PICK-UP VOLTAGE	0.8 - 1.1 V AC/DC x Us 0.8 - 1.1 V AC x Uc
POWER CONSUMPTION,	24 VA, Dual-frequency coil
PICK-UP, 50 HZ	in a cold state and 1.0 x Us

	61140 400 V AC, Between coil and contacts, According to EN 61140
POWER CONSUMPTION, PICK-UP, 60 HZ	19 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 24 VA, Dual-frequency coil in a cold state and 1.0 x Us
RESIDUAL CURRENT	1 mA (with actuation of A1 - A2 by the electronics with "0" signal)
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
POWER CONSUMPTION, SEALING, 60 HZ	1.4 W, Dual-frequency coil in a cold state and 1.0 x Us 4 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 1.5) mm <sup>2</sup> 2 x (0.75 - 1.5) mm <sup>2</sup>
SHOCK RESISTANCE	7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms
TERMINAL CAPACITY (SOLID)	2 x (0.75 - 2.5) mm <sup>2</sup> 1 x (0.75 - 4) mm <sup>2</sup> 1 x (0.75 - 2.5) mm <sup>2</sup>
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	20 A, Maximum motor rating (UL/CSA)
TIGHTENING TORQUE	1.2 Nm, Screw terminals
TERMINAL CAPACITY (FLEXIBLE)	1 x (0.75 - 2.5) mm <sup>2</sup> 2 x (0.75 - 2.5) mm <sup>2</sup>
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V
RATED CONTROL SUPPLY	0 V

690 V
144 A
22 A
12 A
12 A
12 A
10 A
7 A
10 A
22 A
6 A
22 A
22 A
8 kW
9 kW
14 kW

RATED OPERATIONAL POWER AT AC-1, 415 V, 50 HZ	15 kW
RATED OPERATIONAL POWER AT AC-1, 440 V, 50 HZ	16 kW
RATED OPERATIONAL POWER AT AC-1, 500 V, 50 HZ	18 kW
RATED OPERATIONAL POWER AT AC-1, 690 V, 50 HZ	24 kW
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	4 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	5.5 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	7 kW
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	4.5 kW
RATED OPERATIONAL POWER (NEMA)	0 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	18 ms

9 ms
60 A, max. CB, SCCR (UL/CSA) 45 A, max. Fuse, SCCR (UL/CSA) 5 kA, SCCR (UL/CSA)
30 kA, Fuse, SCCR (UL/CSA)  25 A, Class RK5, max. Fuse, SCCR (UL/CSA)
30 kA, Fuse, SCCR (UL/CSA)
25 A, Class RK5, max. Fuse, SCCR (UL/CSA)
35 A gG/gL
25 A gG/gL
20 A gG/gL
20 A gG/gL
20 A (600V 60Hz 3phase, 347V 60Hz 1phase) 20 A (480V 60Hz 3phase, 277V 60Hz 1phase)
5 HP, 600 V 60 Hz 3-ph, (UL/CSA) 6.1 A, 600 V 60 Hz 3-ph, (UL/CSA)
10 A, FLA 480 V 60 Hz 3phase; (CSA) 60 A, LRA 480 V 60 Hz 3phase; (CSA) 60 A, LRA 600 V 60 Hz 3phase; (CSA) 10 A, FLA 600 V 60 Hz
3phase; (CSA)

AIR HEATING	(UL/CSA) 20 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS	14 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 14 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)
CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	22 A
CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	21 A
CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)	20 A
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	7.5 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	7 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	6.5 kW
ACTUATING VOLTAGE	48 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:	
DATE:	



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