## Specifications

## Eaton 106727

Eaton Moeller® series DILM Contactor, 380 V 400 V 900 kW, 2 N/O, 2 NC, RAW 250, AC operation, Screw connection

General specifications	S
PRODUCT NAME	Eaton Moeller® series DILM Contactor
CATALOG NUMBER	106727
MODEL CODE	DILM1600/22(RAW250)
EAN	4015081064946
PRODUCT LENGTH/DEPTH	392 mm
PRODUCT HEIGHT	252 mm
PRODUCT WIDTH	515 mm
PRODUCT WEIGHT	32 kg
CERTIFICATIONS	CSA Class No.: 3211-04 IEC/EN 60947-4-1 CE UL IEC/EN 60947 CSA File No.: 012528 UL 60947-4-1 UL Category Control No.: NLDX CSA VDE 0660 UL File No.: E29096 CSA-C22.2 No. 60947-4-1-14
	Contacts according
CATALOG NOTES	to EN 50012  • Conventional thermal current Ith of main contacts (1-pole, open) at 60°



S
Fitting options auxiliary contacts: on the side: 2 x DILM820-XHI11(V)-SI; 2 x DILM820-XHI11-SA
The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
Is the panel builder's responsibility. The specifications for the switchgear must be observed.
Is the panel builder's responsibility. The specifications for the switchgear must be observed.
The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
Meets the product standard's requirements.
Meets the product standard's requirements.
Mosts the product
Meets the product standard's requirements.
standard's requirements.  Meets the product
standard's requirements.  Meets the product standard's requirements.  Meets the product
standard's requirements.  Meets the product standard's requirements.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to

Resources	
CATALOGS	Product Range Catalog Switching and protecting motors
	eaton-contactors- component-dilm- characteristic-curve- 002.eps
	eaton-contactors- component-dilm- characteristic-curve.eps
CHARACTERISTIC CURVE	eaton-contactors- component-dilm- characteristic-curve- 003.eps
	eaton-contactors-short- time-loading-dilm- characteristic-curve- 002.eps
DECLARATIONS OF CONFORMITY	DA-DC-00005043.pdf
DRAWINGS	eaton-contactors-mounting-dilm-dimensions-002.eps  eaton-contactors-mounting-dilm-dimensions.eps  eaton-contactors-dilm-dimensions-004.eps  eaton-contactors-dilm-3d-drawing-003.eps  eaton-contactors-mounting-dilm-3d-drawing-002.eps
ECAD MODEL	<u>DA-CE-</u> ETN.DILM1600 22(RAW250)
INSTALLATION INSTRUCTIONS	<u>IL03406004Z</u>
MCAD MODEL	eaton-iec-contactors-mcad-drawings-dil-h2000-2200.dwg eaton-iec-contactors-mcad-3d-models-dil-h2000-2200.stp

10.3 DEGREE OF PROTECTION OF ASSEMBLIES  10.4 CLEARANCES AND CREEPAGE DISTANCES  10.5 PROTECTION AGAINST ELECTRIC SHOCK  10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS  10.7 INTERNAL ELECTRICS AND COMPONENTS  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  FITTED WITH:  OPERATING FREQUENCY  OPERATING FREQUENCY  CLIMATIC PROOFING  UTILIZATION CATEGORY  UTILIZATION CATEGORY  UTILIZATION CATEGORY  UVINING MACEN AND CORPORATION OF SWITCHING, SWITCH PRODERS  WITHST AND VOLTAGE  UTILIZATION CATEGORY  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  ID oes not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  Is t		
TOUS 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  FITTED WITH:  CHIMATIC PROOFING  EXTERD IMPULSE WITHSTAND VOLTAGE  CLIMATIC PROOFING  RATED IMPULSE WITHSTAND VOLTAGE  UTILIZATION CATEGORY  UTILIZATION CATEGORY  UTILIZATION CATEGORY  UTILIZATION CATEGORY  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.  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 pane	PROTECTION OF	entire switchgear needs to
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  FITTED WITH:  COPERATING FREQUENCY  OPERATING FREQUENCY  CLIMATIC PROOFING  CLIMATIC PROOFING  UTILIZATION CATEGORY  UTILIZATION CATEGORY  UTILIZATION CATEGORY  Toos on ta 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		-
switching devices and components  10.7 Internal Electrical Circuits And connections  10.8 connections  10.9.2 Power-FREQUENCY ELECTRIC STRENGTH  10.9.3 IMPULSE WITHSTAND VOLTAGE  OPERATING FREQUENCY  CLIMATIC PROOFING  CLIMATIC PROOFING  UTILIZATION CATEGORY  UTILIZATION CATEGORY  Is the panel builder's responsibility.  Is t	AGAINST ELECTRIC	entire switchgear needs to
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  FITTED WITH:  OPERATING FREQUENCY  OPERATION CATEGORY  CLIMATIC PROOFING  UTILIZATION CATEGORY  UTILIZATION CATEGORY  Is the panel builder's responsibility.  Is the panel builder's responsibili	SWITCHING DEVICES AND	entire switchgear needs to
TEXTERNAL CONDUCTORS  10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH  10.9.3 IMPULSE WITHSTAND VOLTAGE  10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL  FITTED WITH:  Suppressor circuit in actuating electronics  1000 mechanical Operations/h (DC operated) 1000 mechanical Operations/h (AC operated)  POLLUTION DEGREE  3  CLIMATIC PROOFING  Bamp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  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	ELECTRICAL CIRCUITS	
FREQUENCY ELECTRIC STRENGTH  10.9.3 IMPULSE WITHSTAND VOLTAGE  10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL  FITTED WITH:  Suppressor circuit in actuating electronics  1000 mechanical Operations/h (DC operated) 1000 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  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  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		•
WITHSTAND VOLTAGE       responsibility.         10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL       Is the panel builder's responsibility.         FITTED WITH:       Suppressor circuit in actuating electronics         1000 mechanical Operations/h (DC operated) 1000 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         RATED IMPULSE WITHSTAND VOLTAGE (UIMP)       8000 V AC         VAC-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	FREQUENCY ELECTRIC	
Is the panel builder's responsibility.  FITTED WITH:  Suppressor circuit in actuating electronics  1000 mechanical Operations/h (DC operated) 1000 mechanical Operations/h (AC operated) 1000 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  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  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		·
OPERATING FREQUENCY  OPERATING FREQUENCY  OPERATING FREQUENCY  Operations/h (DC operated) 1000 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  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  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	ENCLOSURES MADE OF	•
OPERATING FREQUENCY  Operations/h (DC operated) 1000 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  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  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	FITTED WITH:	
CLIMATIC PROOFING  Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  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	OPERATING FREQUENCY	Operations/h (DC operated) 1000 mechanical Operations/h (AC
CLIMATIC PROOFING  IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  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	POLLUTION DEGREE	3
WITHSTAND VOLTAGE (UIMP)  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	CLIMATIC PROOFING	IEC 60068-2-78 Damp heat, cyclic, to IEC
slightly inductive loads, resistance furnaces AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, switch off	WITHSTAND VOLTAGE	8000 V AC
during running		AC-1: Non-inductive or
CONNECTION Screw terminals	UTILIZATION CATEGORY	resistance furnaces AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction

SYSTEM OVERVIEW	eaton-contactors- system55-dilm-explosion- drawing.eps
WIRING DIAGRAMS	eaton-contactors-contact- dilm-wiring-diagram- 004.eps

AMBIENT OPERATING TEMPERATURE - MAX	60 °C
AMBIENT OPERATING TEMPERATURE - MIN	-40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	7777777 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	7777777 °C
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	560 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	640 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	1200 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	1300 HP
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	1880 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)	4500 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	41 W
APPLICATION	Contactors for Motors
PRODUCT CATEGORY	Contactors
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Rail connection
SCREWDRIVER SIZE	2, Terminal screw, Control circuit cables, Pozidriv screwdriver

VOLTAGE TYPE	AC/DC
DEGREE OF PROTECTION	IP00
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	2
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	2
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	2
NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT	0
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	2
NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	3
RATED BREAKING CAPACITY AT 1000 V	5800 A
RATED BREAKING CAPACITY AT 220/230 V	16000 A
RATED BREAKING CAPACITY AT 380/400 V	16000 A
RATED BREAKING CAPACITY AT 500 V	16000 A
RATED BREAKING CAPACITY AT 660/690 V	16000 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	250 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	230 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	250 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	230 V
DROP-OUT VOLTAGE	AC operated: 0.2 x US max - 0.6 x US min, AC operated 0.2 x US max - 0.6 x US min, DC operated
OVERVOLTAGE CATEGORY	III

BEHAVIOR IN MARGINAL AND TRANSITIONAL CONDITIONS	Sealing - Voltage drops (0.6 - 0.7 x Uc min: Contactor remains switched on Sealing - Pick-up phase (0.7 x Uc min - 1.15 x Uc max): Contactor switches on with certainty Sealing - Voltage interruptions 0 - 0.2 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Voltage drops (0.2 - 0.6 x Uc min ≤12 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min ≤ 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min ≤ 10 ms: Time is bridged successfully Sealing - Voltage drops (0.2 - 0.6 x Uc min) > 12 ms: Drop-out of the contactor Sealing - Excess voltage (1.15 - 1.3 x Uc max): Contactor remains switched on Sealing - Pick-up phase (0 - 0.7 x Uc min: Contactor does not switch on
DUTY FACTOR	100 %
DOTTFACTOR	
ELECTROMAGNETIC COMPATIBILITY	Designed for operation in industrial environments. Its use in residential environments may cause radio-frequency interference, requiring additional noise suppression.
LIFESPAN, MECHANICAL	5,000,000 Operations (AC operated) 5,000,000 Operations (DC operated)
PICK-UP VOLTAGE	0.7 - 1.15 V AC x Us 0.7 - 1.15 V DC x Us
POWER CONSUMPTION,	1400 W, Pull-in power, Coil in a cold state and 1.0 x Us
PICK-UP, 50 HZ	1600 VA, Pull-in power, Coil in a cold state and 1.0 x Us

	EN 61140
POWER CONSUMPTION, PICK-UP, 60 HZ	1600 VA, Pull-in power, Coil in a cold state and 1.0 x Us 1400 W, Pull-in power, Coil in a cold state and 1.0 x Us
SCREW SIZE	M3.5, Terminal screw, Control circuit cables M12, Terminal screw, Main connections
POWER CONSUMPTION, SEALING, 50 HZ	36.5 VA, Coil in a cold state and 1.0 x Us 17.3 W, Coil in a cold state and 1.0 x Us
POWER CONSUMPTION, SEALING, 60 HZ	36.5 VA, Coil in a cold state and 1.0 x Us 17.3 W, Coil in a cold state and 1.0 x Us
RESISTANCE	$500 \text{ m}\Omega$ (Admissible transitional contact resistance - of the external control circuit device when actuating A11)
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	1 A, 250 V DC, (UL/CSA) 15 A, 600 V AC, (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 - 2.5) mm², Control circuit cables 1 x (0.75 - 2.5) mm², Control circuit cables
SHOCK RESISTANCE	10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 8 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 10 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 2.5) mm², Control circuit cables 2 x (0.75 - 2.5) mm², Control circuit cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14, Control circuit cables

SIGNAL LEVEL	5 V - 15 V, PLC signal level (A3 - A4) to IEC/EN 61131-2 (type 2), Magnet systems
TERMINAL CAPACITY (BUSBAR)	100 mm width, Main connection
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	1600 A, Maximum motor rating (UL/CSA)
POWER CONSUMPTION	Control transformer with uk ≤ 7%
TIGHTENING TORQUE	35 Nm, Main cable connection screw/bolt 1.2 Nm, Screw terminals, Control circuit cables
WIDTH ACROSS FLATS	18 mm
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	250 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	230 V
RATED INSULATION VOLTAGE (UI)	1000 V
RATED MAKING CAPACITY (COS PHI TO IEC/EN 60947)	19000 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 1000 V	1200 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	1600 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	1600 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	1600 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	1600 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	1600 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 1000 V	1120 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	1280 A

RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V  RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V  RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V  RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V  RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) RATED OPERATIONAL POWER AT AC-3, 1000 V, 50 HZ  RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 4500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 660/690  1300 kW	CURRENT (IE) AT AC-4, 1280 A 400 V  RATED OPERATIONAL
CURRENT (IE) AT AC-4, 440 V  RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V  RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V  RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)  RATED OPERATIONAL POWER AT AC-3, 1000 V, 50 HZ  RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ  RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 1000 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL 1300 kW	
CURRENT (IE) AT AC-4, 500 V  RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V  RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)  RATED OPERATIONAL POWER AT AC-3, 1000 V, 50 HZ  RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ  RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 1000 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 450 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	
CURRENT (IE) AT AC-4, 660 V, 690 V  RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)  RATED OPERATIONAL POWER AT AC-3, 1000 V, 50 HZ  RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ  RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 1000 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	<b>CURRENT (IE) AT AC-4,</b> 1280 A
CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)  RATED OPERATIONAL POWER AT AC-3, 1000 V, 50 HZ  RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ  RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 1000 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL 1300 kW	<b>CURRENT (IE) AT AC-4,</b> 1280 A
POWER AT AC-3, 1000 V, 50 HZ  RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ  RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 1000 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	CURRENT FOR SPECIFIED 1600 A
POWER AT AC-3, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ  RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 1000 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	<b>POWER AT AC-3, 1000 V,</b> 1770 kW
POWER AT AC-3, 380/400 V, 50 HZ  RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 1000 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	<b>POWER AT AC-3, 240 V, 50</b> 550 kW
POWER AT AC-3, 415 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 1000 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	<b>POWER AT AC-3, 380/400</b> 900 kW
POWER AT AC-4, 1000 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 220/230 430 kW V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 380/400 750 kW V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 830 kW HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 940 kW HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 940 kW HZ	<b>POWER AT AC-3, 415 V, 50</b> 930 kW
POWER AT AC-4, 220/230 430 kW V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 240 V, 50 450 kW HZ  RATED OPERATIONAL POWER AT AC-4, 380/400 750 kW V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 415 V, 50 770 kW HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 830 kW HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 940 kW HZ  RATED OPERATIONAL 1300 kW	<b>POWER AT AC-4, 1000 V,</b> 1650 kW
POWER AT AC-4, 240 V, 50 450 kW HZ  RATED OPERATIONAL POWER AT AC-4, 380/400 750 kW V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 415 V, 50 770 kW HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 830 kW HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 940 kW HZ  RATED OPERATIONAL 1300 kW	<b>POWER AT AC-4, 220/230</b> 430 kW
POWER AT AC-4, 380/400 750 kW V, 50 HZ  RATED OPERATIONAL POWER AT AC-4, 415 V, 50 770 kW HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 830 kW HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 940 kW HZ  RATED OPERATIONAL 1300 kW	<b>POWER AT AC-4, 240 V, 50</b> 450 kW
POWER AT AC-4, 415 V, 50 770 kW HZ  RATED OPERATIONAL POWER AT AC-4, 440 V, 50 830 kW HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 940 kW HZ  RATED OPERATIONAL 1300 kW	<b>POWER AT AC-4, 380/400</b> 750 kW
POWER AT AC-4, 440 V, 50 830 kW HZ  RATED OPERATIONAL POWER AT AC-4, 500 V, 50 940 kW HZ  RATED OPERATIONAL 1300 kW	<b>POWER AT AC-4, 415 V, 50</b> 770 kW
POWER AT AC-4, 500 V, 50 940 kW HZ  RATED OPERATIONAL 1300 kW	<b>POWER AT AC-4, 440 V, 50</b> 830 kW
1300 kW	<b>POWER AT AC-4, 500 V, 50</b> 940 kW
	RATED OPERATIONAL POWER AT AC-4, 660/690

V, 50 HZ	
RATED OPERATIONAL POWER (NEMA)	895 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	1000 V
RESISTANCE PER POLE	0.016 mΩ
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	13 W
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	70 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	40 ms
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	2000 A, max. Fuse, SCCR (UL/CSA) 85 kA, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)	85 kA, Fuse, SCCR (UL/CSA)  2000 A, max. Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	2000 A, max. Fuse, SCCR (UL/CSA) 85 kA, Fuse, SCCR (UL/CSA)
CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	2200 A
CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	1970 A
CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)	1800 A
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	1000 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	1180 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	1600 kW
ACTUATING VOLTAGE	RAW 250
ALTITUDE	Max. 2000 m

OPERATING VOLTAGE AT AC, 50 HZ - MIN	230 V
OPERATING VOLTAGE AT AC, 50 HZ - MAX	250 V
OPERATING VOLTAGE AT AC, 60 HZ - MIN	230 V
OPERATING VOLTAGE AT AC, 60 HZ - MAX	250 V

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



## **Eaton Corporation plc**

Eaton House 30 Pembroke Road Dublin 4, Ireland Eaton.com

© 2025 Eaton. All Rights Reserved.

Follow us on social media to get the latest product and support information.









