Specifications

Eaton 118915

Eaton Moeller® series DILMP Contactor, 4 pole, 45 A, 1 NC, 110 V 50 Hz, 120 V 60 Hz, AC operation

General specification	ons
PRODUCT NAME	Eaton Moeller® series DILMP 4-pole contactor
CATALOG NUMBER	118915
MODEL CODE	DILMP45- 01(110V50HZ,120V60HZ)
EAN	4015081170425
PRODUCT LENGTH/DEPTH	97 mm
PRODUCT HEIGHT	85 mm
PRODUCT WIDTH	58 mm
PRODUCT WEIGHT	0.49 kg
CERTIFICATIONS	CSA File No.: 012528 UL IEC/EN 60947-4-1 CSA-C22.2 No. 60947-4-1- 14 UL 60947-4-1 CSA Class No.: 2411-03, 3211-04 VDE 0660 CE CSA UL Category Control No.: NLDX IEC/EN 60947 UL File No.: E29096
CATALOG NOTES	Contacts according to EN 50012
GLOBAL CATALOG	118915



Product specification	S
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	
	eaton-product-overview- for-machinery-catalogue ca08103003zen-en-us.pd
CATALOGS	Product Range Catalog Switching and protecting motors
	SmartWire-DT Catalog
DECLARATIONS OF	DA-DC-00004816.pdf
CONFORMITY	<u>DA-DC-00004783.pdf</u>
	eaton-contactors- characteristic-curve- 2110dia-3.eps
DRAWINGS	eaton-contactors- mounting-dilm- dimensions.eps
	eaton-contactors- mounting-dilm- dimensions-002.eps
	eaton-contactors- dimensions-2110dim- 10.eps
	eaton-contactors- dimensions-2110dim- 11.eps
ECAD MODEL	ETN.118915.edz
INSTALLATION INSTRUCTIONS	<u>IL03407049Z</u>
INSTALLATION VIDEOS	WIN-WIN with push-in technology
	DA-CD-dil mp32 45
MCAD MODEL	DA-CS-dil mp32 45
WIRING DIAGRAMS	2100SWI-121

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.
FITTED WITH:	Mirror contact
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	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
	60 °C -25 °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	2 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	7.5 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	5 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	10 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	15 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	20 HP
CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	105 A
CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)	36 A
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	40 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)	117 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	13.2 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	4.4 W

Contactors for 4 pole electric consumers ICT CATEGORY Contactors Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN
Finger and back-of-hand proof, Protection against direct contact when
proof, Protection against CTION direct contact when
50274)
CICAL SCRION TYPE OF Screw connection CIRCUIT
2, Terminal screw, Pozidriv screwdriver DRIVER SIZE 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver
GE TYPE AC
E OF PROTECTION IP00
ER OF AUXILIARY CTS (NORMALLY 1 D CONTACTS)
ER OF AUXILIARY CCTS (NORMALLY 0 CONTACTS)
ER OF CONTACTS ALLY CLOSED 1 CTS)
ER OF CONTACTS ALLY CLOSED) AS 0 CONTACT
ER OF MAIN CTS (NORMALLY 4 CONTACT)
BREAKING ITY AT 220/230 V 250 A
BREAKING ITY AT 380/400 V
BREAKING ITY AT 500 V
BREAKING ITY AT 660/690 V
CONTROL SUPPLY GE (US) AT AC, 50 110 V AX
CONTROL SUPPLY GE (US) AT AC, 50 110 V N
CONTROL SUPPLY GE (US) AT AC, 60

HZ - MAX	
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	120 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	0.85 - 1.1 V AC/DC x Us 0.8 - 1.1 V AC x Uc
POWER CONSUMPTION, PICK-UP, 50 HZ	50 VA, Dual-frequency coil in a cold state and 1.0 x Us
SAFE ISOLATION	440 V AC, Between the contacts, According to EN 61140 440 V AC, Between coil and contacts, According to EN 61140
POWER CONSUMPTION, PICK-UP, 60 HZ	40 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 50 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	M5, Terminal screw, Main cables M3.5, Terminal screw, Control circuit cables
POWER CONSUMPTION, SEALING, 50 HZ	2.1 W, Dual-frequency coil in a cold state and 1.0 x Us
POWER CONSUMPTION, SEALING, 60 HZ	8 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us
TERMINAL CAPACITY (STRANDED)	1 x 16 mm², Main cables
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	1 A, 250 V DC, (UL/CSA) 10 A, 600 V AC, (UL/CSA)
SWITCHING CAPACITY	A600, AC operated

(AUXILIARY CONTACTS, PlLOT DUTY) P300, DC operated (UL/CSA)	
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE) 1 x (0.75 - 1.5) mm² 2 x (0.75 - 1.5) mm²	
5 g, N/C auxiliary cor Mechanical, accordir IEC/EN 60068-2-27, H sinusoidal shock 10 in 10 g, N/O main contant Mechanical, accordir IEC/EN 60068-2-27, H sinusoidal shock 10 in 7 g, N/O auxiliary con Mechanical, accordir IEC/EN 60068-2-27, H sinusoidal shock 10 in	ng to Half- ms act, ng to Half- ms ntact, ng to Half-
TERMINAL CAPACITY (SOLID) $1 \times (0.75 - 4) \text{ mm}^2, \text{ Cocircuit cables} \\ 1 \times (0.75 - 16) \text{ mm}^2, \text{ Note that cables} \\ 2 \times (0.75 - 10) \text{ mm}^2, \text{ Note that cables} \\ 2 \times (0.75 - 2.5) \text{ mm}^2, \text{ Control circuit cables} \\ 1 \times (0.75 - 2.5) \text{ mm}^2$	Main Main
TERMINAL CAPACITY (SOLID/STRANDED AWG) 18 - 6, Main cables 18 - 14, Control circu cables	it
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE) 40 A, Maximum motor rating (UL/CSA)	or
TIGHTENING TORQUE 1.2 Nm, Screw termi Control circuit cables 3 Nm, Screw termina Main cables	5
TERMINAL CAPACITY 1 x (0.75 - 2.5) mm² (FLEXIBLE) 2 x (0.75 - 2.5) mm²	
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - 0 V MAX	
RATED CONTROL SUPPLY	
VOLTAGE (US) AT DC - 0 V MIN	
RATED INSULATION 690 V	

CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	15 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	15 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V	45 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V	45 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V	45 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	45 A
RATED OPERATIONAL POWER AT AC-1, 220/230 V, 50 HZ	16 kW
RATED OPERATIONAL POWER AT AC-1, 240 V, 50 HZ	18 kW
RATED OPERATIONAL POWER AT AC-1, 380/400 V, 50 HZ	28 kW
RATED OPERATIONAL POWER AT AC-1, 415 V, 50 HZ	31 kW
RATED OPERATIONAL POWER AT AC-1, 440 V, 50 HZ	33 kW
RATED OPERATIONAL POWER AT AC-1, 500 V, 50 HZ	37 kW

RATED OPERATIONAL POWER AT AC-1, 690 V, 50 HZ	49 kW
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	8.5 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	11 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	14.5 kW
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	7 kW
RATED OPERATIONAL POWER (NEMA)	11 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RESISTANCE PER POLE	2.7 mΩ
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	2.1 W
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	10 mm
STRIPPING LENGTH (MAIN CABLE)	10 mm
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	22 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	16 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	14 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	8 ms
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	125 A, max. Fuse, SCCR (UL/CSA) 5 kA, SCCR (UL/CSA) 125 A, max. CB, SCCR

	(UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)	125/70 A, Class J, max. Fuse, SCCR (UL/CSA) 10/100 kA, Fuse, SCCR (UL/CSA) 10/65 kA, CB, SCCR (UL/CSA) 50/32 A, max. CB, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	10/22 kA, CB, SCCR (UL/CSA) 10/100 kA, Fuse, SCCR (UL/CSA) 50/32 A, max. CB, SCCR (UL/CSA) 125/100 A, Class J, max. Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V	100 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	35 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V	35 A gG/gL
SPECIAL PURPOSE RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS	40 A (600V 60Hz 3phase, 347V 60Hz 1phase) 40 A (480V 60Hz 3phase, 277V 60Hz 1phase)
SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING	25 A, FLA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 150 A, LRA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA)
SPECIAL PURPOSE RATING OF ELEVATOR CONTROL	17 A, 600 V 60 Hz 3-ph, (UL/CSA) 3 HP, 200 V 60 Hz 3-ph, (UL/CSA) 10 HP, 480 V 60 Hz 3-ph, (UL/CSA) 5 HP, 240 V 60 Hz 3-ph, (UL/CSA) 11 A, 200 V 60 Hz 3-ph, (UL/CSA)

	14 A, 480 V 60 Hz 3-ph, (UL/CSA) 15 HP, 600 V 60 Hz 3-ph, (UL/CSA) 15.2 A, 240 V 60 Hz 3-ph, (UL/CSA)
SPECIAL PURPOSE RATING OF REFRIGERATION CONTROL (CSA ONLY)	180 A, LRA 600 V 60 Hz 3phase; (CSA) 240 A, LRA 480 V 60 Hz 3phase; (CSA) 40 A, FLA 480 V 60 Hz 3phase; (CSA) 30 A, FLA 600 V 60 Hz 3phase; (CSA)
SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING	40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 40 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)
SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS	40 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	45 A
CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	41 A
CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)	39 A
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	15.5 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	17.5 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	14 kW
ACTUATING VOLTAGE	110 V 50 Hz, 120 V 60 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	24 V

AC, 60 HZ - MIN

OPERATING VOLTAGE AT AC, 60 HZ - MAX

690 V

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



Eaton Corporation plc

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