Specifications

Photo is representative

Eaton 109191

Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 37 kW, 110 V 50 Hz, 120 V 60 Hz, AC operation, Screw terminals DILM72(110V50HZ,120V60HZ)

PRODUCT NAME	General specifications	
CATALOG NUMBER CONTACTOR CATALOG NUMBER 109191 MODEL CODE DILM72(110V50HZ,120V60HZ) EAN 4015081088119 PRODUCT LENGTH/DEPTH 132.1 mm PRODUCT WIDTH PRODUCT WEIGHT 0.872 kg CE CSA CSA File No.: 012528 VDE 0660 CSA-C22.2 No. 60947-4-1-14 UL UL File No.: E29096 UL Category Control No.: NLDX CSA Class No.: 2411-03, 3211-04 IEC/EN 60947 IEC/EN 60947-4-1 UL 60947-4-1 UL 60947-4-1 CONTACTS according to EN 50012	General specificati	
MODEL CODE DILM72(110V50HZ,120V60HZ) EAN 4015081088119 PRODUCT LENGTH/DEPTH 132.1 mm PRODUCT WIDTH 55 mm PRODUCT WEIGHT 0.872 kg CE CSA CSA File No.: 012528 VDE 0660 CSA-C22.2 No. 60947-4-1-14 UL UL File No.: E29096 UL Category Control No.: NLDX CSA Class No.: 2411-03, 3211-04 IEC/EN 60947 IEC/EN 60947-4-1 UL 60947-4-1 CATALOG NOTES Contacts according to EN 50012	PRODUCT NAME	
## PRODUCT 132.1 mm 132.1 mm 132.1 mm 132.1 mm 132.1 mm 14.5 mm 14.5 mm 15.5 mm	CATALOG NUMBER	109191
PRODUCT LENGTH/DEPTH 132.1 mm PRODUCT HEIGHT 115 mm PRODUCT WIDTH 55 mm PRODUCT WEIGHT 0.872 kg CE CSA CSA File No.: 012528 VDE 0660 CSA-C22.2 No. 60947-4-1-14 UL UL File No.: E29096 UL Category Control No.: NLDX CSA Class No.: 2411-03, 3211-04 IEC/EN 60947-4-1 UL 60947-4-1 CATALOG NOTES Contacts according to EN 50012	MODEL CODE	DILM72(110V50HZ,120V60HZ)
132.1 mm	EAN	4015081088119
PRODUCT WIDTH 55 mm PRODUCT WEIGHT 0.872 kg CE CSA CSA File No.: 012528 VDE 0660 CSA-C22.2 No. 60947-4-1-14 UL UL File No.: E29096 UL Category Control No.: NLDX CSA Class No.: 2411-03, 3211-04 IEC/EN 60947 IEC/EN 60947-4-1 UL 60947-4-1 UL 60947-4-1 Contacts according to EN 50012		132.1 mm
PRODUCT WEIGHT 0.872 kg CE CSA CSA File No.: 012528 VDE 0660 CSA-C22.2 No. 60947-4-1-14 UL UL File No.: E29096 UL Category Control No.: NLDX CSA Class No.: 2411-03, 3211-04 IEC/EN 60947 IEC/EN 60947-4-1 UL 60947-4-1 CATALOG NOTES Contacts according to EN 50012	PRODUCT HEIGHT	115 mm
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CSA CSA File No.: 012528 VDE 0660 CSA-C22.2 No. 60947-4-1-14 UL UL File No.: E29096 UL Category Control No.: NLDX CSA Class No.: 2411-03, 3211- 04 IEC/EN 60947 IEC/EN 60947-4-1 UL 60947-4-1 UL 60947-4-1 COntacts according to EN 50012	PRODUCT WEIGHT	0.872 kg
50012	CERTIFICATIONS	CSA CSA File No.: 012528 VDE 0660 CSA-C22.2 No. 60947-4-1-14 UL UL File No.: E29096 UL Category Control No.: NLDX CSA Class No.: 2411-03, 3211-04 IEC/EN 60947 IEC/EN 60947-4-1
GLOBAL CATALOG 109191	CATALOG NOTES	_
	GLOBAL CATALOG	109191



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.
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
- FROTECTION OF	

Resources	
	Product Range Catalog Switching and protecting motors
CATALOGS	eaton-product-overview- for-machinery-catalogue- ca08103003zen-en-us.pdf
	SmartWire-DT Catalog
	eaton-contactors-switch- dilm-characteristic- curve.eps
CHARACTERISTIC CURVE	eaton-contactors- component-dilm- characteristic-curve- 003.eps
	eaton-contactors-switch-dilm-characteristic-curve-002.eps
DECLARATIONS OF	DA-DC-00004782.pdf
CONFORMITY	DA-DC-00004817.pdf
DRAWINGS	eaton-contactors- mounting-dilm- dimensions.eps eaton-contactors- mounting-dilm- dimensions-002.eps eaton-contactors-dilm- dimensions-002.eps eaton-contactors-dilm- dimensions-012.eps
	eaton-contactors- mounting-dilm-3d- drawing.eps eaton-contactors-dilm-3d- drawing-011.eps
ECAD MODEL	ETN.109191.edz
INSTALLATION INSTRUCTIONS	<u>IL03407033Z</u>
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MCAD MODEL	DA-CD-dil m40 72
	DA CD dil III TO 12

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 CUIMATIC PROOFING CONNECTION TO SMARTWIRE-DT RATED IMPULSE WITHSTAND VOLTAGE UTILIZATION CATEGORY UTILIZATION CATEGORY AMBIENT OPERATING FEAME SIZE AMBIENT OPERATING FESS AMBIENT OPERATING FESS CCONNECTION SOME CONNECTION SCIENCE STRENG Meets the product standard's requirements. 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 panel builder's respons	ACCENADILIEC	
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AMBIENT OPERATING TEMPERATURE - MAX 60 °C	CONNECTION	Screw terminals
TEMPERATURE - MAX 60 °C		
AMBIENT OPERATING -25 °C	FRAME SIZE	FS3
	AMBIENT OPERATING	

SYSTEM OVERVIEW	eaton-contactors-dilm- contactor-system- overview.eps
WIRING DIAGRAMS	eaton-contactors-contact- dilm-wiring-diagram- 003.eps

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	5 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	20 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	15 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	25 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	50 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	60 HP
CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	180 A
CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)	72 A
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	83 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)	200 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	21 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	7 W

APPLICATION	Contactors for Motors
PRODUCT CATEGORY 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	0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
VOLTAGE TYPE	AC
DEGREE OF PROTECTION	IP00
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)	3
RATED BREAKING CAPACITY AT 220/230 V	650 A
RATED BREAKING CAPACITY AT 380/400 V	650 A
CAPACITY AT 500 V	650 A
CAPACITY AT 660/690 V	370 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	110 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	110 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	120 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60	120 V

HZ - MIN	
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	149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
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	178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
SCREW SIZE	M6, Terminal screw, Main cables M3.5, Terminal screw, Control circuit cables
POWER CONSUMPTION, SEALING, 50 HZ	16 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 4.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
POWER CONSUMPTION, SEALING, 60 HZ	4.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
TERMINAL CAPACITY (STRANDED)	1 x (16 - 50) mm², Main cables 2 x (16 - 35) mm², Main cables
TERMINAL CAPACITY (COPPER BAND)	2 x (6 x 9 x 0.8) mm (Number of segments x width x thickness), Main cables
TERMINAL CAPACITY (FLEXIBLE WITH	2 x (0.75 - 25) mm², Main cables

FERRULE)	2 x (0.75 - 2.5) mm², Control circuit cables 1 x (0.75 - 2.5) mm², Control circuit cables 1 x (0.75 - 35) mm², Main cables
SHOCK RESISTANCE	10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Halfsinusoidal shock 10 ms 10 g, N/O main 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 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Halfsinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Halfsinusoidal shock 10 ms
TERMINAL CAPACITY (SOLID)	2 x (0.75 - 16) mm², Main cables 1 x (0.75 - 4) mm², Control circuit cables 1 x (0.75 - 16) mm², Main cables 2 x (0.75 - 2.5) mm², Control circuit cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14, Control circuit cables Single 14 - 1, double 14 - 2, Main cables
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	88 A, Maximum motor rating (UL/CSA)
TIGHTENING TORQUE	3.3 Nm, Screw terminals, Main cables 1.2 Nm, Screw terminals, Control circuit cables

MAX	
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)	910 A
RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	98 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	72 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	72 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	72 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	72 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	37 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	20 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V	72 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V	65 A
RATED OPERATIONAL	72 A

CURRENT (IE) AT DC-1, 60 V	
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	72 A
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	25 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	37 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	41 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	7 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	7.5 kW
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	12 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	13 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	14 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	16 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	17 kW
RATED OPERATIONAL POWER (NEMA)	37 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RESISTANCE PER POLE	1.9 mΩ
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	4.1 W
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	10 mm
STRIPPING LENGTH (MAIN CABLE)	14 mm

SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	18 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	12 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	13 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	8 ms
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	250 A, max. Fuse, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA) 250 A, max. CB, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)	65 kA, CB, SCCR (UL/CSA) 100 A, max. CB, SCCR (UL/CSA) 30/100 kA, Fuse, SCCR (UL/CSA) 250/150 A, Class J, max. Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	30/100 kA, Fuse, SCCR (UL/CSA) 250/150 A, Class J, max. Fuse, SCCR (UL/CSA) 250 A, max. CB, SCCR (UL/CSA) 30 kA, CB, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V	250 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V	100 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION)	125 A gG/gL
AT 400 V	
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V	80 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION)	80 A gG/gL 88 A (600V 60Hz 3phase,

RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS	347V 60Hz 1phase) 88 A (480V 60Hz 3phase, 277V 60Hz 1phase)
SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING	72 A, FLA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 432 A, LRA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA)
SPECIAL PURPOSE RATING OF ELEVATOR CONTROL	42 A, 240 V 60 Hz 3-ph, (UL/CSA) 15 HP, 240 V 60 Hz 3-ph, (UL/CSA) 41 A, 600 V 60 Hz 3-ph, (UL/CSA) 30 HP, 480 V 60 Hz 3-ph, (UL/CSA) 40 A, 480 V 60 Hz 3-ph, (UL/CSA) 40 HP, 600 V 60 Hz 3-ph, (UL/CSA) 10 HP, 200 V 60 Hz 3-ph, (UL/CSA) 32.2 A, 200 V 60 Hz 3-ph, (UL/CSA)
SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING	88 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 88 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS	88 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 88 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)
CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	98 A
CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	88 A
CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)	80 A
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	44 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	50 kW
RATED OPERATIONAL	35 kW

POWER AT AC-3, 690 V, 50 HZ	
ACTUATING VOLTAGE	110 V 50 Hz, 120 V 60 Hz
ALTITUDE	Max. 2000 m
OPERATING VOLTAGE AT AC, 50 HZ - MIN	230 V
OPERATING VOLTAGE AT AC, 50 HZ - MAX	690 V
OPERATING VOLTAGE AT AC, 60 HZ - MIN	230 V
OPERATING VOLTAGE AT AC, 60 HZ - MAX	690 V

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



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