

Specifications



Photo is representative



Eaton 139552

Eaton Moeller® series DILM Contactor, 380 V 400 V 110 kW, 2 N/O, 2 NC, RDC 130: 110 - 130 V DC, DC operation, Screw connection

General specifications

PRODUCT NAME	Eaton Moeller® series DILM Contactor
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CATALOG NUMBER	139552
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MODEL CODE	DILM225A/22(RDC130)
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EAN	4015081363308
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PRODUCT LENGTH/DEPTH	158 mm
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PRODUCT HEIGHT	190 mm
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PRODUCT WIDTH	140 mm
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PRODUCT WEIGHT	3.54 kg
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CERTIFICATIONS

UL File No.: E29096
UL Category Control No.: NLDX
CE
IEC/EN 60947
IEC/EN 60947-4-1
UL
VDE 0660
UL 60947-4-1
CSA-C22.2 No. 60947-4-1-14
CSA File No.: 2389068
CSA Class No.: 3211-04
CSA

CATALOG NOTES

- Contacts according to EN 50012
- Also tested according to AC-3e up to 500 V.
- Also suitable for motors with efficiency class IE3.
- Conventional thermal current Ith of main contacts (1-pole, open) at 60°



Powering Business Worldwide

AC-1/Conventional thermal current Ith

CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	688 A
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CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)	275 A
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CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	386 A
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CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	345 A
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CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	329 A
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CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)	315 A
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CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)	788 A
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Contacts

NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	2
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NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	2
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NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	2
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NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	2
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Climatic environmental conditions

ALTITUDE	Max. 2000 m
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AMBIENT OPERATING TEMPERATURE - MAX	60 °C
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AMBIENT STORAGE TEMPERATURE - MAX	80 °C
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AMBIENT OPERATING TEMPERATURE - MIN	-40 °C
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AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
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AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-40 °C
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AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
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CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
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Design verification

10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
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10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
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10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
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10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
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10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.
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10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.
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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 ASSEMBLIES	Does not apply, since the entire switchgear needs to 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	Is the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's 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.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	7.67 W

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	225 A
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STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	2.1 W
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Electrical rating

INRUSH CURRENT	Max. 30 x I _e (peak)
RATED BREAKING CAPACITY AT 1000 V	760 A
RATED BREAKING CAPACITY AT 220/230 V	2250 A
RATED BREAKING CAPACITY AT 380/400 V	2250 A
RATED BREAKING CAPACITY AT 500 V	2250 A
RATED BREAKING CAPACITY AT 660/690 V	2250 A
RATED INSULATION VOLTAGE (UI)	1000 V
RATED MAKING CAPACITY (COS PHI TO IEC/EN 60947)	2700 A
RATED OPERATIONAL CURRENT (IE)	220 A at up to 525 V (Individual compensation, three-phase capacitors, open) 133 A at 690 V (Individual compensation, three-phase capacitors, open)
RATED OPERATIONAL CURRENT (IE) AT AC-3, 1000 V	76 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	225 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	225 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	225 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	225 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	160 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 1000 V	55 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	164 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	164 A

General information

ACCESSORIES	Fitting options auxiliary contacts: on the side: 2 x DILM1000-XHI(V)11-SI; 2 x DILM1000-XHI11-SA
APPLICATION	Contactors for Motors
CONNECTION	Screw terminals
DEGREE OF PROTECTION	IP00
ELECTROMAGNETIC COMPATIBILITY	Designed for operation in industrial environments. Its use in residential environments may cause radio-frequency interference, requiring additional noise suppression.
FITTED WITH:	Suppressor circuit in actuating electronics
LIFESPAN, ELECTRICAL	100,000 Operations (at Condensor operation)
LIFESPAN, MECHANICAL	10,000,000 Operations (DC operated)
OPERATING FREQUENCY	200 Operations/h 3000 mechanical Operations/h (DC operated)
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
PRODUCT CATEGORY	Contactors
PROTECTION	Finger and back-of-hand proof with terminal shroud or terminal block, Protection against direct contact when actuated from front (EN 50274)
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	8000 V AC
SHOCK RESISTANCE	10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 10 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 8 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms

RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	164 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	120 A
RATED OPERATIONAL POWER AT AC-3, 1000 V, 50 HZ	108 kW
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	75 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	110 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	132 kW
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	138 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	160 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	150 kW
RATED OPERATIONAL POWER AT AC-4, 1000 V, 50 HZ	77 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	51 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	54 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	96 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	102 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	116 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	110 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	1000 V
SAFE ISOLATION	1000 V AC, Between coil and contacts, According to

UTILIZATION CATEGORY	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 during running
VOLTAGE TYPE	DC

	EN 61140
SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING	2016 A, LRA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 336 A, FLA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 1680 A, LRA 600 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 280 A, FLA 600 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA)

Magnet system	
DROP-OUT VOLTAGE	DC operated: 0.2 x US max - 0.6 US min, DC operated DC operated: 0.15 x US min - 0.6 US max, DC operated
DUTY FACTOR	100 %
PICK-UP VOLTAGE	0.7 - 1.2 V DC x Us
POWER CONSUMPTION (PICK-UP) AT DC	210 VA
POWER CONSUMPTION (SEALING) AT DC	2.1 W
POWER CONSUMPTION, PICK-UP, 50 HZ	210 VA, Pull-in power, Coil in a cold state and 1.0 x Us
POWER CONSUMPTION, PICK-UP, 60 HZ	210 VA, Pull-in power, Coil in a cold state and 1.0 x Us
POWER CONSUMPTION, SEALING, 50 HZ	2.1 W, Coil in a cold state and 1.0 x Us
POWER CONSUMPTION, SEALING, 60 HZ	2.1 W, Coil in a cold state and 1.0 x Us
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	130 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	110 V
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	60 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	40 ms

Motor rating	
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	60 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	75 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	150 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	200 HP

Short-circuit rating

SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	600 A, max. CB, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA) 700 A, max. Fuse, SCCR (UL/CSA)
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SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)	600 A, Class J, max. Fuse, SCCR (UL/CSA) 65 kA, CB, SCCR (UL/CSA) 100 kA, Fuse, SCCR (UL/CSA) 350 A, max. CB, SCCR (UL/CSA)
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SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	350 A, max. CB, SCCR (UL/CSA) 600 A, Class J, max. Fuse, SCCR (UL/CSA) 50 kA, CB, SCCR (UL/CSA) 100 kA, Fuse, SCCR (UL/CSA)
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SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 1000 V	200 A gG/gL
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SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V	400 A gG/gL
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SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V	315 A gG/gL
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SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 1000 V	160 A gG/gL
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SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V	315 A gG/gL
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SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V	250 A gG/gL
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Switching capacity

SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	15 A, 600 V AC, (UL/CSA) 1 A, 250 V DC, (UL/CSA)
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SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)
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SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	250 A, Maximum motor rating (UL/CSA)
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Terminal capacities

SCREW SIZE	M10, Terminal screw, Main connections M3.5, Terminal screw, Control circuit cables
SCREWDRIVER SIZE	2, Terminal screw, Control circuit cables, Pozidriv screwdriver
TERMINAL CAPACITY (BUSBAR)	32 mm width, Main connection
TERMINAL CAPACITY (COPPER BAND)	Fixing with flat cable terminal or cable terminal blocks; See terminal capacity for cable terminal blocks
TERMINAL CAPACITY (FLEXIBLE WITH CABLE LUG)	50 - 185 mm ²
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 2.5) mm ² , Control circuit cables 2 x (0.75 - 2.5) mm ² , Control circuit cables
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 2.5) mm ² , Control circuit cables 2 x (0.75 - 2.5) mm ² , Control circuit cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	2/0 - 250 MCM, Main cables 18 - 14, Control circuit cables
TERMINAL CAPACITY (STRANDED WITH CABLE LUG)	70 - 185 mm ²
TIGHTENING TORQUE	1.2 Nm, Screw terminals, Control circuit cables 24 Nm, Main cable connection screw/bolt
WIDTH ACROSS FLATS	16 mm

Resources

BROCHURES	eaton-product-brochure-dilmdilh-power-contactors-brochure-br034010en-en-us.pdf
CATALOGUES	Product Range Catalog Switching and protecting motors
	eaton-contactors-component-dilm-characteristic-curve.eps
	eaton-contactors-component-dilm-characteristic-curve-002.eps
CHARACTERISTIC CURVE	eaton-contactors-component-dilm-characteristic-curve-003.eps
	eaton-contactors-short-time-loading-dilm-characteristic-curve-002.eps
DECLARATIONS OF CONFORMITY	eaton-contactor-declaration-of-conformity-uk251101en.pdf
	eaton-contactor-declaration-of-conformity-eu250618en.pdf
	eaton-contactors-dilm-dimensions-006.eps
	eaton-contactors-mounting-dilm-dimensions-002.eps
DRAWINGS	eaton-contactors-mounting-dilm-dimensions.eps
	eaton-contactors-dilm-3d-drawing.eps
ECAD MODEL	DA-CE-ETN.DILM225A_22(RDC130)
INSTALLATION INSTRUCTIONS	eaton-contactors-dilm185a-dilm225a-il03406001z.pdf
MCAD MODEL	eaton-iec-contactors-mcad-drawings-dil-m185-225.dwg
	eaton-iec-contactors-mcad-3d-models-dil-m185-225.stp

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

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