Especificaciones



La foto es representativa





Eaton 139551

Eaton Moeller® series DILM Contactor, 380 V 400 V 110 kW, 2 N/O, 2 NC, RDC 60: 48 - 60 V DC, DC operation, Screw connection

Especificaciones generales	
PRODUCT NAME	Eaton Moeller® series DILM Contactor
CATALOG NUMBER	139551
EAN	4015081363292
PRODUCT LENGTH/DEPTH	158 mm
PRODUCT HEIGHT	190 mm
PRODUCT WIDTH	140 mm
PRODUCT WEIGHT	3.54 kg
CERTIFICATIONS	UL 60947-4-1 CSA File No.: 2389068 VDE 0660 CSA Class No.: 3211-04 UL Category Control No.: NLDX CE UL File No.: E29096 CSA-C22.2 No. 60947-4-1- 14 UL IEC/EN 60947 IEC/EN 60947-4-1 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°
---------------	---

DILM225A/22(RDC60)

MODEL CODE



General	
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	Ш
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	8 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 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-

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

	sinusoidal shock 10 ms
UTILIZATION CATEGORY	AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-3: Normal AC induction motors: starting, switch off during running
VOLTAGE TYPE	DC

Secciones de conexió	on
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 mm²
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) mm², Control circuit cables 2 x (0.75 - 2.5) mm², Control circuit cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14, Control circuit cables 2/0 - 250 MCM, Main cables
TERMINAL CAPACITY (STRANDED WITH CABLE LUG)	70 - 185 mm²
WIDTH ACROSS FLATS	16 mm
SCREW SIZE	M10, Terminal screw, Main connections M3.5, Terminal screw, Control circuit cables
SCREWDRIVER SIZE	2, Terminal screw, Control circuit cables, Pozidriv screwdriver
TIGHTENING TORQUE	1.2 Nm, Screw terminals, Control circuit cables 24 Nm, Main cable connection screw/bolt

Especificaciones eléctricas	
INRUSH CURRENT	Max. 30 x le (peak)
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 BREAKING CAPACITY AT 1000 V	760 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, 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	160 A

76 A
164 A
164 A
164 A
120 A
55 A
75 kW
110 kW
132 kW
138 kW
160 kW
150 kW
108 kW
51 kW
54 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
RATED OPERATIONAL POWER AT AC-4, 1000 V, 50 HZ	77 kW
SAFE ISOLATION	1000 V AC, Between coil and contacts, According to EN 61140
SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING	336 A, FLA 480 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) 2016 A, LRA 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)

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

AT 690 V

AC-1/Intesidad térmica convencional lth	
CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	386 A
CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	345 A
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	329 A
CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)	275 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)	788 A
CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	688 A

Poder de corte	
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	250 A, Maximum motor rating (UL/CSA)
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)	A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)

Sistema magnético	
DROP-OUT VOLTAGE	AC operated: 0.25 x US max - 0.6 x US min, AC operated AC operated: 0.2 x US max - 0.4 x US min, AC operated 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, 50 HZ	210 VA, Pull-in power, Coil in a cold state and 1.0 x Us 180 W, 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 180 W, 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 AC, 50 HZ - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	48 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	60 V
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	60 ms

SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX

40 ms

Potencia asignada de motor	
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

Contactos	
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 OPEN CONTACTS)	2

Verificación del diseñ	0
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
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	2.1 W
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 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.

Recursos	
CHARACTERISTIC CURVE	eaton-contactors- component-dilm- characteristic-curve- 002.eps
	eaton-contactors- component-dilm- characteristic-curve.eps
DECLARATIONS OF	DA-DC-00004799.pdf
CONFORMITY	DA-DC-00004802.pdf
DIBUJOS	eaton-contactors-dilm- dimensions-006.eps
	eaton-contactors-dilm-3d- drawing.eps
ECAD MODEL	<u>DA-CE-</u> ETN.DILM225A 22(RDC60)
ECAD MODEL ESQUEMAS ELÉCTRICOS	
	ETN.DILM225A 22(RDC60) eaton-contactors-contact- dilm-wiring-diagram-
ESQUEMAS ELÉCTRICOS INSTRUCCIONES DE MONTAJE	eaton-contactors-contact-dilm-wiring-diagram-004.eps
ESQUEMAS ELÉCTRICOS INSTRUCCIONES DE	eaton-contactors-contact-dilm-wiring-diagram-004.eps IL03406001Z eaton-iec-contactors-mcad-3d-models-dil-

Does not apply, since the entire switchgear needs to be evaluated.
ls the panel builder's responsibility.
Is the panel builder's responsibility.
Is the panel builder's responsibility.
ls the panel builder's responsibility.
Is the panel builder's responsibility.
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.

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
FECHA:	



Eaton Corporation plc

Eaton House 30 Pembroke Road Dublín 4, Irlanda Eaton.com

© 2025 Eaton Todos los derechos reservados.

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









