Specifications

Photo is representative

Eaton 127079

Eaton Moeller® series DILEM Contactor, 24 V 50/60 Hz, 3 pole, 380 V 400 V, 5.5 kW, Contacts N/O = Normally open= 1 N/O, Screw terminals, AC operation

General specifications Eaton Moeller® series **PRODUCT NAME DILEM Mini contactor** 127079 CATALOG NUMBER **MODEL CODE** DILEM12-10(24V50/60HZ) 4015081246144 EAN PRODUCT 52 mm LENGTH/DEPTH **PRODUCT HEIGHT** 58 mm **PRODUCT WIDTH** 45 mm **PRODUCT WEIGHT** 0.17 kg CE CSA File No.: 012528 UL Category Control No.: NLDX IEC/EN 60947-4-1 UL 508 CERTIFICATIONS CSA Class No.: 3211-04 CSA UL CSA-C22.2 No. 14-05 IEC/EN 60947 UL File No.: E29096 VDE 0660 Contacts according to EN **CATALOG NOTES** 50012 **GLOBAL CATALOG** 127079



Product specifications

NUMBER OF POLES	Three-pole
FEATURES	Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module
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.

Resources

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CATALOGS	eaton-product-overview- for-machinery-catalogue- ca08103003zen-en-us.pdf Product Range Catalog Switching and protecting motors
CHARACTERISTIC CURVE	eaton-contactors-switch- dilm-characteristic- curve.eps eaton-contactors- component-dilm- characteristic-curve- 003.eps eaton-contactors-short- time-loading-dilm- characteristic-curve.eps
DECLARATIONS OF CONFORMITY	DA-DC-00004812.pdf DA-DC-00004788.pdf
DRAWINGS	eaton-contactors-diler- dimensions-005.epseaton-contactors-diler- dimensions-004.epseaton-contactors-dilem- dimensions.epseaton-tripping-devices- mounting-diler-contactor- relay-symbol.epseaton-contactors-3d- drawing-019.eps
ECAD MODEL	ETN.127079.edz
INSTALLATION INSTRUCTIONS	<u>IL03407009Z</u>
MCAD MODEL	<u>DA-CD-dil em</u> <u>DA-CS-dil em</u>
SYSTEM OVERVIEW	<u>eaton-contactors-</u> <u>accessory-dilem-system-</u> <u>overview.eps</u>
WIRING DIAGRAMS	eaton-contactors-contact- dilm-wiring-diagram.eps

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	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	Is 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	ls the panel builder's responsibility.
FITTED WITH:	Auxiliary contact
OPERATING FREQUENCY	9000 mechanical Operations/h
POLLUTION DEGREE	3
	Damp heat, cyclic, to IEC 60068-2-30
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	Damp heat, constant, to
RATED IMPULSE WITHSTAND VOLTAGE	Damp heat, constant, to IEC 60068-2-78
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	Damp heat, constant, to IEC 60068-2-78 6000 V AC AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-3: Normal AC induction motors: starting, switch off during running AC-4: Normal AC induction motors: starting, plugging,
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	Damp heat, constant, to IEC 60068-2-78 6000 V AC AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-3: Normal AC induction motors: starting, switch off during running AC-4: Normal AC induction motors: starting, plugging, reversing, inching

AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
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	0.5 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	2 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	1.5 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	3 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	5 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	5 HP
CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	40 A
CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)	16 A
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	19 A
CONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)	10 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)	50 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	2.1 W

HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	0.7 W
SWITCHING TIME (AC OPERATED, N/O, WITH AUXILIARY CONTACT MODULE, CLOSING DELAY)	45 ms
APPLICATION	 Contactors for Motors Mini Contactors for Motors and Resistive Loads
PRODUCT CATEGORY	Contactors
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
ARCING TIME	12 ms at 690 V AC
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	IP20
MOUNTING POSITION	As required (except vertical with terminals A1/A2 at the bottom)
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1
NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT	0
NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	3
RATED BREAKING	96 A

96 A
72 A
42 A
24 V
24 V
24 V
24 V
111
< 2 λ, < 1 failure at 100,000,000 Operations (at U _e = 24 V DC, Umin = 17 V, Imin = 5.4 mA)
100 %
16 - 21 ms
5,000,000 Operations 5,000,000 Operations (Coil 50/60 Hz) 200,000 Operations (at 240 V, AC-15) 150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A)
0.8 - 1.1 V AC x Uc (voltage tolerance - dual frequency coil 50/60 Hz)
26 W, AC, Dual-frequency coil at 50 Hz 30 VA, AC, Dual-frequency coil at 50 Hz
300 V AC, Between auxiliary contacts, According to EN 61140 300 V AC, Between coil and contacts, According to EN 61140 300 V AC, Between the contacts, According to EN

	and auxiliary contacts, According to EN 61140
POWER CONSUMPTION, PICK-UP, 60 HZ	29 VA, AC, Dual-frequency coil at 60 Hz 24 W, AC, Dual-frequency coil at 60 Hz
SCREW SIZE	M3.5, Terminal screw
POWER CONSUMPTION, SEALING, 50 HZ	1.8 W, Coil in a cold state and 1.0 x Us 5.4 VA, Coil in a cold state and 1.0 x Us
POWER CONSUMPTION, SEALING, 60 HZ	 1.8 W, AC, Dual-frequency coil at 60 Hz 1.8 W, Coil in a cold state and 1.0 x Us 3.9 VA, AC, Dual-frequency coil at 60 Hz 5.4 VA, Coil in a cold state and 1.0 x Us
RATED OPERATIONAL CURRENT (IE)	2.5 A at 60 V, DC L/R \leq 15 ms (with 2 contacts in series) 2.5 A at 24 V, DC L/R \leq 15 ms (with 1 contact in series) 1.5 A at 100 V, DC L/R \leq 15 ms (with 3 contacts in series) 0.5 A at 220 V, DC L/R \leq 15 ms (with 3 contacts in series)
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	0.5 A, 250 V DC, (UL/CSA) 10 A, 600 V AC, (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 1.5) mm² 2 x (0.75 - 1.5) mm²
SHOCK RESISTANCE	10 g, N/O main contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 20 g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms

TERMINAL CAPACITY (SOLID)1 x (0.75 - 2.5) mm² 2 x (0.75 - 2.5) mm²TERMINAL CAPACITY (SOLID/STRANDED AWG)18 - 14SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)15 A, Maximum motor rating (UL/CSA)TIGHTENING TORQUE1.2 Nm, Screw terminalsRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN0 VRATED CONTROL SUPPLY VOLTAGE (UI)0 VRATED CONTROL SUPPLY VOLTAGE (UI)0 VRATED ONTROL SUPPLY VOLTAGE (UI)0 VRATED ONTROL SUPPLY VOLTAGE (UI)0 VRATED ONTROL SUPPLY VOLTAGE (UI)0 VRATED INSULATION VOLTAGE (UI)690 VRATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V22 ARATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V3 ARATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V3 A		8 g, N/O auxiliary contact, Basic unit without auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 20 g, N/O auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 10 g, N/O main contact, Basic unit without auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms
(SOLID/STRANDED AWG)18 - 14SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)15 A, Maximum motor rating (UL/CSA)TIGHTENING TORQUE1.2 Nm, Screw terminalsRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN120 ARATED INSULATION VOLTAGE (UI)690 VRATED MAKING CAPACITY UP TO 440 V (COS PHI TO IEC/EN 60947)22 ARATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V6 ARATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V3 ARATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V3 A		
15 A, Maximum motor rating (UL/CSA)TIGHTENING TORQUE1.2 Nm, Screw terminalsRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN0 VRATED INSULATION VOLTAGE (UI)690 VRATED MAKING CAPACITY UP TO 440 V (COS PHI TO IEC/EN 60947)120 ARATED OPERATIONAL CURRENT (IE) AT AC-15, 320 V, 240 V22 ARATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V3 ARATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V3 A		18 - 14
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VOLTAGE (US) AT DC - MAX0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN0 VRATED INSULATION VOLTAGE (UI)690 VRATED MAKING CAPACITY UP TO 440 V (COS PHI TO IEC/EN 60947)120 ARATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V22 ARATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V6 ARATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V3 ARATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V3 A	TIGHTENING TORQUE	1.2 Nm, Screw terminals
VOLTAGE (US) AT DC - MIN0 VRATED INSULATION VOLTAGE (UI)690 VRATED MAKING CAPACITY UP TO 440 V (COS PHI TO IEC/EN 60947)120 ARATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V22 ARATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V6 ARATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V6 ARATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V6 ARATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V6 ARATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V6 ARATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V6 A	VOLTAGE (US) AT DC -	0 V
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CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V 22 A RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V 6 A RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V 3 A RATED OPERATIONAL 3 A RATED OPERATIONAL 3 A	CAPACITY UP TO 440 V (COS PHI TO IEC/EN	120 A
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CURRENT (IE) AT AC-15, 3 A 380 V, 400 V, 415 V RATED OPERATIONAL	CURRENT (IE) AT AC-15,	6 A
	CURRENT (IE) AT AC-15,	3 A
500 V	CURRENT (IE) AT AC-15,	1.5 A
RATED OPERATIONAL12 A	RATED OPERATIONAL	12 A

CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	12 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	10.5 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	9 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	5.2 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	6.6 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	6.6 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	6.6 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	5 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	3.4 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V	20 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 12 V	20 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V	20 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 24 V	20 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V	20 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	12 A
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	3 kW

RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	5.5 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	5.5 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	1.5 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	1.5 kW
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	3 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	3 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	3 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	3 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	3 kW
RATED OPERATIONAL POWER (NEMA)	3.7 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RESISTANCE PER POLE	9.18 mΩ
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	1.8 W
STRIPPING LENGTH (MAIN CABLE)	8 mm
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	21 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	14 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING	18 ms

DELAY) - MAX	
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	8 ms
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	5 kA, SCCR (UL/CSA) 45 A, max. Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION	PKZM0-4, Maximum overcurrent protective device, Short-circuit protection only, Auxiliary contacts, Short-circuit rating without welding 10 A fast, Max. Fuse 500V, Auxiliary contacts, Short- circuit rating without welding 6 A gG/gL, Max. Fuse 500V, Auxiliary contacts, Short- circuit rating without welding
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 500 V	35 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 500 V	20 A gG/gL
CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	22 A
CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	20 A
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	5.5 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	5.5 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	4 kW
ACTUATING VOLTAGE	24 V 50/60 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 AC, 60 HZ - MIN	24 V
OPERATING VOLTAGE AT AC, 60 HZ - MAX	690 V

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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