Specifications

Photo is representative

Eaton 127132

Eaton Moeller® series DILEM Contactor, 24 V DC, 3 pole, 380 V 400 V, 5.5 kW, Contacts N/O = Normally open= 1 N/O, Screw terminals, DC operation DILEM12-10-G(24VDC)

General specifications		
PRODUCT NAME	Eaton Moeller® series DILEM Mini contactor	
CATALOG NUMBER	127132	
MODEL CODE	DILEM12-10-G(24VDC)	
EAN	4015081246670	
PRODUCT LENGTH/DEPTH	54 mm	
PRODUCT HEIGHT	58 mm	
PRODUCT WIDTH	45 mm	
PRODUCT WEIGHT	0.206 kg	
CERTIFICATIONS	UL IEC/EN 60947 UL Category Control No.: NLDX CE IEC/EN 60947-4-1 CSA File No.: 012528 CSA-C22.2 No. 14-05 UL File No.: E29096 CSA UL 508 VDE 0660 CSA Class No.: 3211-04	
CATALOG NOTES	Contacts according to EN 50012	
GLOBAL CATALOG	127132	



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

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-00004788.pdf
DRAWINGS	eaton-contactors-diler- dimensions-004.epseaton-contactors-dilem- dimensions.epseaton-contactors-diler- dimensions-005.epseaton-contactors-3d- drawing-019.epseaton-tripping-devices- mounting-diler-contactor- relay-symbol.eps
ECAD MODEL	ETN.127132.edz
INSTALLATION INSTRUCTIONS	<u>IL03407009Z</u>
MCAD MODEL	DA-CD-dil em DA-CS-dil_em
SYSTEM OVERVIEW	<u>eaton-contactors-</u> accessory-dilem-system- overview.eps
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	1.8 W

HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	0.6 W
SWITCHING TIME (AC OPERATED, N/O, WITH AUXILIARY CONTACT MODULE, CLOSING DELAY)	70 ms
SWITCHING TIME (DC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	35 ms
SWITCHING TIME (DC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	26 ms
SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	25 ms
SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	15 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)
PROTECTION ARCING TIME	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 actuated from front (EN 50274)
ARCING TIME ELECTRICAL CONNECTION TYPE OF	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) 12 ms at 690 V AC
ARCING TIME ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) 12 ms at 690 V AC Screw connection 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv
ARCING TIME ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT SCREWDRIVER SIZE	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) 12 ms at 690 V AC Screw connection 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
ARCING TIME ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT SCREWDRIVER SIZE VOLTAGE TYPE	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)12 ms at 690 V ACScrew connection0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriverDC

	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 CAPACITY AT 220/230 V	96 A
RATED BREAKING CAPACITY AT 380/400 V	96 A
RATED BREAKING CAPACITY AT 500 V	72 A
RATED BREAKING CAPACITY AT 660/690 V	42 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	0 V
CONTACT CONFIGURATION	1NC
OVERVOLTAGE CATEGORY	III
CONTROL CIRCUIT RELIABILITY	< 2 λ, < 1 failure at 100,000,000 Operations (at U _e = 24 V DC, Umin = 17 V, Imin = 5.4 mA)
DUTY FACTOR	100 %
CHANGEOVER TIME	40 - 50 ms
LIFESPAN, MECHANICAL	150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A) 200,000 Operations (at 240 V, AC-15)

	5,000,000 Operations
PICK-UP VOLTAGE	0.8 - 1.1 V DC x Uc
SAFE ISOLATION	300 V AC, Between the contacts, According to EN 61140 300 V AC, Between auxiliary contacts, According to EN 61140 300 V AC, Between coil and auxiliary contacts, According to EN 61140 300 V AC, Between coil and contacts, According to EN 61140
SCREW SIZE	M3.5, Terminal screw
RATED OPERATIONAL CURRENT (IE)	1.5 A at 100 V, DC L/R \leq 15ms (with 3 contacts inseries)2.5 A at 60 V, DC L/R \leq 15ms (with 2 contacts inseries)2.5 A at 24 V, DC L/R \leq 15ms (with 1 contact inseries)0.5 A at 220 V, DC L/R \leq 15ms (with 3 contacts inseries)
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	10 A, 600 V AC, (UL/CSA) 0.5 A, 250 V DC, (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	P300, DC operated (UL/CSA) A600, AC operated (UL/CSA)
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (0.75 - 1.5) mm² 1 x (0.75 - 1.5) mm²
SHOCK RESISTANCE	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 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 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
TERMINAL CAPACITY (SOLID)	2 x (0.75 - 2.5) mm² 1 x (0.75 - 2.5) mm²
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	15 A, Maximum motor rating (UL/CSA)
POWER CONSUMPTION	Smoothed DC voltage or three-phase bridge rectifier 2.3 VA/W at DC (Pick- up/Sealing power)
TIGHTENING TORQUE	1.2 Nm, Screw terminals
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	24 V
RATED INSULATION VOLTAGE (UI)	690 V
RATED MAKING CAPACITY UP TO 440 V (COS PHI TO IEC/EN 60947)	120 A
RATED OPERATIONAL 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 CURRENT (IE) AT AC-15, 500 V	1.5 A

RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V12 ARATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V10.5 ARATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V10.5 ARATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V9 ARATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V5.2 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 6.6 A6.6 A220 V, 230 V, 240 V6.6 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V6.6 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 6.6 A6.6 A440 V6.6 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V6.6 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V5.4RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V3.4 AG60 V, 690 V3.4 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 10 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 12 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 20 A20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 20 A20 AVRATED OPERATIONAL CURRENT (IE) AT DC-1, 20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 20 A20 AVRATED OPERATIONAL CURRENT (IE) AT DC-1, 60 20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V20 ARATED OPERATIONAL CURRENT (IE) AT		
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CURRENT (IE) AT AC-3, 660 V, 690 V5.2 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V6.6 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V6.6 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V6.6 ARATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V5.4RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V5.4RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V3.4 AG60 V, 690 V3.4 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 12 20 A20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 24 20 A20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 24 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V20 ARATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)12 ARATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)3 kW	CURRENT (IE) AT AC-3,	9 A
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CURRENT (IE) AT DC-1, 1220 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 2420 AV20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 6020 AV20 ARATED OPERATIONAL CURRENT (IE) AT DC-1, 6020 ARATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)12 ARATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)12 A	CURRENT (IE) AT DC-1,	20 A
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3 kW	CURRENT FOR SPECIFIED	12 A
		3 kW

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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	7.86 mΩ
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	2.3 W
STRIPPING LENGTH (MAIN CABLE)	8 mm
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	45 A, max. Fuse, SCCR (UL/CSA) 5 kA, 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 DC
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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