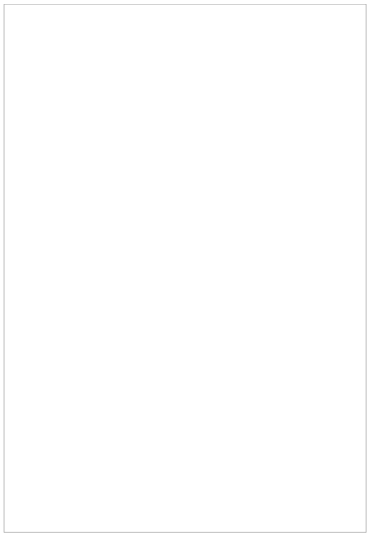
DILE MINI CONTACTOR RELAY
010343



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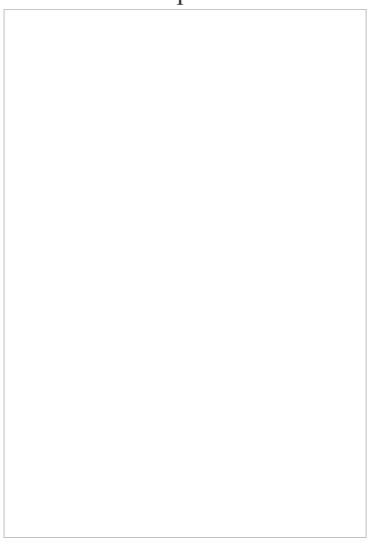

Photo is representative

010343

Eaton Moeller® series DILEM Contactor, 24 V DC, Contacts N/C = Normally closed= 1 NC, Screw term 01-G(24VDC)

How to buy

Photo is representative

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Designed to work together

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014518

Eaton Moeller® series ZE Overload relay, Ir= 2.4 - 4 A, 1 N/O, 1 N/C, Direct mounting

014479

Eaton Moeller® series ZE Overload relay, Ir= 1.6 - 2.4 A, 1 N/O, 1 N/C, Direct mounting

014565

Eaton Moeller® series ZE Overload relay, Ir= 4 - 6 A, 1 N/O, 1 N/C, Direct mounting

010288

Eaton Moeller® series DILE Au
contact module, 4 pole, 2 N/O, 2
fixing, Screw terminals, DILE(E)

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General specifications >

Product specifications >

GENERAL SPECIFICATIONS

PRODUCT NAME	Eaton Moeller® series DILEM Mini contactor
CATALOG NUMBER	010343
MODEL CODE	DILEM-01-G(24VDC)
EAN	4015080103431
PRODUCT LENGTH/DEPTH	54 mm
PRODUCT HEIGHT	58 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.206 kg
CERTIFICATIONS	CSA-C22.2 No. 14-05 UL File No.: E29096 CSA Class No.: 3211-04 UL IEC/EN 60947-4-1 IEC/EN 60947 CSA File No.: 012528 VDE 0660 UL 508 UL Category Control No.: NLDX CSA CE
CATALOG NOTES	Also tested according to AC-3e.

PRODUCT SPECIFICATIONS

TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (0.75 - 1.5) mm² 1 x (0.75 - 1.5) mm²
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	9 A
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specificatio must be observed.
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	4 kW
CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)	16 A
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	3 kW
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	6.6 A

RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	0 V
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT	0
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	19 A
RATED OPERATIONAL POWER (NEMA)	3.7 kW
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.
AMBIENT STORAGE TEMPERATURE - MIN	40 °C
FITTED WITH:	Auxiliary contact
RATED BREAKING CAPACITY AT 380/400 V	90 A
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	45 A, max. Fuse, SCCR (UL/CSA) 5 kA, SCCR (UL/CSA)
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	0 V
RATED BREAKING CAPACITY AT 660/690 V	42 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 24 V	20 A
CHANGEOVER TIME	40 - 50 ms
RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V	20 A
AMBIENT OPERATING TEMPERATURE - MAX	50 °C
ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE	0.5 HP
FEATURES	Positive operating contacts to EN 60947-5-1 append auxiliary contact module
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	3.3 kW
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
NUMBER OF POLES	Three-pole
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to
APPLICATION	Mini Contactors for Motors and Resistive Loads
RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V,	3 A

400 V, 415 V	
OPERATING FREQUENCY	9000 mechanical Operations/h
VOLTAGE TYPE	DC
PRODUCT CATEGORY	Contactors
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	6.6 A
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	4 kW
HEAT DISSIPATION CAPACITY PDISS	0 W
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	5 HP
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	5 A
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	2.5 kW
CONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)	10 A
OPERATING VOLTAGE AT AC, 60 HZ - MAX	690 V
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
DEGREE OF PROTECTION	IP20
OVERVOLTAGE CATEGORY	III
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
POLLUTION DEGREE	3
RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	22 A
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
CONNECTION	Screw terminals
OPERATING VOLTAGE AT AC, 60 HZ - MIN	24 V
TIGHTENING TORQUE	1.2 Nm, Screw terminals
SWITCHING TIME (AC OPERATED, N/O, WITH AUXILIARY CONTACT MODULE, CLOSING DELAY)	70 ms
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	3 kW
CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	40 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	4.8 A
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.

10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	9 A
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	4 kW
SHOCK RESISTANCE	20 g, N/C auxiliary contact, Basic unit with auxilia Mechanical, according to IEC/EN 60068-2-27, Half ms 20 g, N/O auxiliary contact, Basic unit with auxilia Mechanical, according to IEC/EN 60068-2-27, Half ms 10 g, N/C auxiliary contact, Basic unit without aux Mechanical, according to IEC/EN 60068-2-27, Half ms 10 g, N/O main contact, Basic unit with auxiliary c Mechanical, according to IEC/EN 60068-2-27, Half ms 10 g, N/O main contact, Basic unit without auxiliar Mechanical, according to IEC/EN 60068-2-27, Half ms
RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V	20 A
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	3 HP
RATED OPERATIONAL CURRENT (IE) AT DC-1, 12 V	20 A
SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	15 ms
RESISTANCE PER POLE	7.86 mΩ
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	25 °C
OPERATING VOLTAGE AT AC, 50 HZ - MAX	690 V
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specificatio must be observed.
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to
STRIPPING LENGTH (MAIN CABLE)	8 mm
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	24 V
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	3
RATED BREAKING CAPACITY AT 220/230 V	90 A

SCREW SIZE	M3.5, Terminal screw
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	6.6 A
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	5 HP
PROTECTION	Finger and back-of-hand proof, Protection against di actuated from front (EN 50274)
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	4.6 kW
RATED BREAKING CAPACITY AT 500 V	64 A
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	4.3 kW
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	2.3 W
RATED OPERATIONAL CURRENT (IE) AT AC-15, 500 V	1.5 A
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	24 V
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
UTILIZATION CATEGORY	AC-3: Normal AC induction motors: starting, switc AC-4: Normal AC induction motors: starting, plugg inching AC-1: Non-inductive or slightly inductive loads, res
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	9 A
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to
SAFE ISOLATION	300 V AC, Between coil and contacts, According to 300 V AC, Between auxiliary contacts, According t 300 V AC, Between the contacts, According to EN 300 V AC, Between coil and auxiliary contacts, Acc
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 500 V	10 A gG/gL
MOUNTING POSITION	As required (except vertical with terminals A1/A2 at
OPERATING VOLTAGE AT AC, 50 HZ - MIN	24 V
RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V	6 A
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the inf instruction leaflet (IL) is observed.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	1
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT	

PVID	0.3 W
ACTUATING VOLTAGE	24 V DC
SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	25 ms
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	0.5 A, 250 V DC, (UL/CSA) 10 A, 600 V AC, (UL/CSA)
SHORT-CIRCUIT PROTECTION	PKZM0-4, Maximum overcurrent protective device, protection only, Auxiliary contacts, Short-circuit rat 10 A fast, Max. Fuse 500V, Auxiliary contacts, Sho without welding 6 A gG/gL, Max. Fuse 500V, Auxiliary contacts, S without welding
SWITCHING TIME (DC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	35 ms
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	3.4 A
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0.9 W
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	2 HP
RATED OPERATIONAL CURRENT (IE)	2.5 A at 60 V, DC L/R ≤ 15 ms (with 2 contacts in 1.5 A at 100 V, DC L/R ≤ 15 ms (with 3 contacts i 0.5 A at 220 V, DC L/R ≤ 15 ms (with 3 contacts i 2.5 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in
PICK-UP VOLTAGE	0.8 - 1.1 V DC x Uc
SUITABLE FOR	Also motors with efficiency class IE3
CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	22 A
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 2.5) mm² 2 x (0.75 - 2.5) mm²
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	1
POWER CONSUMPTION	2.3 VA/W at DC (Pick-up/Sealing power) Smoothed DC voltage or three-phase bridge rectifier
10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT	Meets the product standard's requirements.
SWITCHING TIME (DC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	26 ms
10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	Meets the product standard's requirements.
LIFESPAN, MECHANICAL	20,000,000 Operations 200,000 Operations (at 240 V, AC-15) 150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 0.5 A)

RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	1.8 kW
RATED MAKING CAPACITY UP TO 440 V (COS PHI TO IEC/EN 60947)	110 A
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	3 kW
CONTROL CIRCUIT RELIABILITY	< 2 λ, < 1 failure at 100,000,000 Operations (at U_c = 17 V, Imin = 5.4 mA)
RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V	20 A
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	1.5 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	0 V
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature Eaton will provide heat dissipation data for the devi
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	15 A, Maximum motor rating (UL/CSA)
CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	20 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	6.4 A
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	1.5 HP
SCREWDRIVER SIZE	0.8 x 5.5/1 x 6 mm, Terminal screw, Standard scre 2, Terminal screw, Pozidriv screwdriver
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 500 V	20 A gG/gL
DUTY FACTOR	100 %
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	9 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN)	50 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	0 V
ARCING TIME	12 ms at 690 V AC
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	3.1 kW
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	P300, DC operated (UL/CSA) A600, AC operated (UL/CSA)
RATED INSULATION VOLTAGE (UI)	690 V
ALTITUDE	Max. 2000 m

Catalogs

Characteristic curve

Declarations of conformity

Drawings

eCAD model

Installation instructions

mCAD model

System overview

Wiring diagrams

010343

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