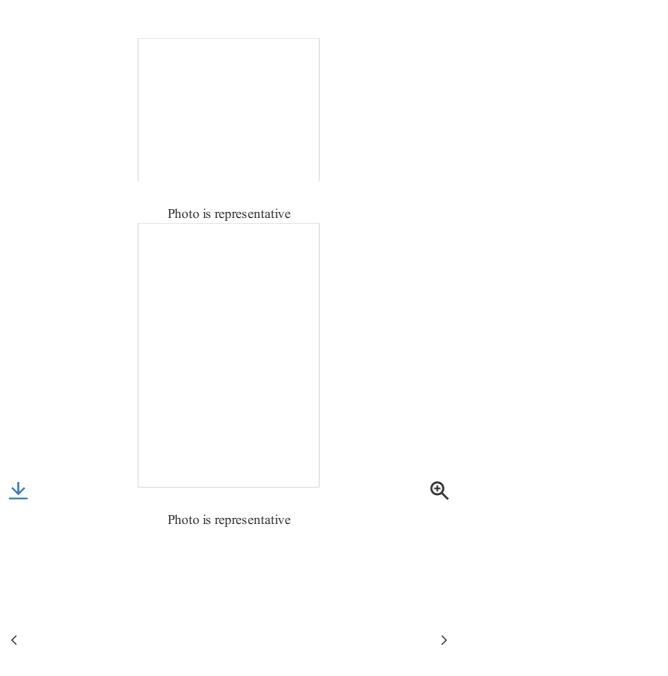
				Products Digita
DILE MINI CONTACTOR RELAY 010213	Overview	Specifications	Resources	How
Photo is represer	ntative	Eaton Contac 10-G(2	Moeller® series DILENets N/O = Normally ope 4VDC)  How to buy	

Photo is representative



## Designed to work together

Ir= 2.4 - 4 A, 1 N/O, 1 N/C, Direct

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014518	014479	014565	010112
Faton Moeller® series ZE Overload relay	Faton Moeller® series ZE Overload relav.	Faton Moeller® series ZE Overload relay.	Faton Moeller® series DILEN

Ir= 1.6 - 2.4 A, 1 N/O, 1 N/C, Direct

mounting mounting

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

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

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		GENERAL SPECIFICATIONS	
General specifications	>	PRODUCTNAME	Eaton Moeller® series DILEM Mini contactor
Schoul specifications		CATALOG NUMBER	010213
Product specifications	>	MODEL CODE	DILEM-10-G(24VDC)
		EAN	4015080102137
		PRODUCT LENGTH/DEPTH	54 mm
		PRODUCTHEIGHT	58 mm
		PRODUCT WIDTH	45 mm
		PRODUCTWEIGHT	0.206 kg
		CERTIFICATIONS	UL 508 UL Category Control No.: NLDX IEC/EN 60947-4-1 UL File No.: E29096 CSA File No.: 012528 CSA CSA-C22.2 No. 14-05 IEC/EN 60947 CE VDE 0660 CSA Class No.: 3211-04 UL
		CATALOG NOTES	Also tested according to AC-3e.
		PRODUCT SPECIFICATIONS	
		TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 1.5) mm <sup>2</sup> 2 x (0.75 - 1.5) mm <sup>2</sup>
		RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	9 A
		10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specification 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  $\phantom{-}$  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)	5 kA, SCCR (UL/CSA) 45 A, max. Fuse, 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
CHANGEO VER 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 appendauxiliary 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

OPERATING FREQUENCY	9000 mechanical Operations/h
VOLTAGETYPE	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	Ш
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 CONTACTS (NORMALLY OPEN CONTACTS)	1
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	4 kW
SHOCK RESISTANCE	10 g, N/O main contact, Basic unit without auxilian Mechanical, according to IEC/EN 60068-2-27, Halfims 20 g, N/O auxiliary contact, Basic unit with auxilian Mechanical, according to IEC/EN 60068-2-27, Halfims 8 g, N/O auxiliary contact, Basic unit without auxilian Mechanical, according to IEC/EN 60068-2-27, Halfims 10 g, N/O main contact, Basic unit with auxiliary of Mechanical, according to IEC/EN 60068-2-27, Halfims 20 g, N/C auxiliary contact, Basic unit with auxiliary contact, Basic unit with auxilian Mechanical, according to IEC/EN 60068-2-27, Halfims
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 specification 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 6/11	•

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, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
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, switch AC-4: Normal AC induction motors: starting, plugginching AC-1: Non-inductive or slightly inductive loads, research
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
SAFEISOLATION	300 V AC, Between the contacts, According to EN 300 V AC, Between coil and auxiliary contacts, Ac 300 V AC, Between auxiliary contacts, According to 300 V AC, Between coil and contacts, According to
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 infinstruction leaflet (IL) is observed.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT	22.00

HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT  $_{7/11}$ 

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	6 A gG/gL, Max. Fuse 500V, Auxiliary contacts, S without welding 10 A fast, Max. Fuse 500V, Auxiliary contacts, Showithout welding PKZM0-4, Maximum overcurrent protective device, protection only, Auxiliary contacts, Short-circuit rat
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 $\leq$ 15 ms (with 2 contacts in 1.5 A at 100 V, DC L/R $\leq$ 15 ms (with 3 contacts in 2.5 A at 24 V, DC L/R $\leq$ 15 ms (with 1 contact in 0.5 A at 220 V, DC L/R $\leq$ 15 ms (with 3 contacts in
PICK-UP VOLTAGE	0.8 - 1.1 V DC x Uc
SUITABLEFOR	Also motors with efficiency class IE3
CONVENTIONAL THERMAL CURRENT ITH AT 40 $^{\circ}\mathrm{C}$ (3-POLE, OPEN)	22 A
TERMINAL CAPACITY (SOLID)	2 x (0.75 - 2.5) mm <sup>2</sup> 1 x (0.75 - 2.5) mm <sup>2</sup>
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
POWER CONSUMPTION	Smoothed DC voltage or three-phase bridge rectifier 2.3 VA/W at DC (Pick-up/Sealing power)
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 $\lambda,$ $<$ 1 failure at 100,000,000 Operations (at $U_{e}$ 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 screv 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 9/11	Max. 2000 m

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Characteristic curve
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Prawings
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