Products Digita **< DIL CONTACTORS** How to 277292 Specifications Overview 277292 Eaton Moeller® series DILM Contactor, 3 pole, 380 50 Hz, 240 V 60 Hz, AC operation, Screw terminals I 01(230V50HZ,240V60HZ) Contact sales about this product Contact technical support Photo is representative Photo is representative

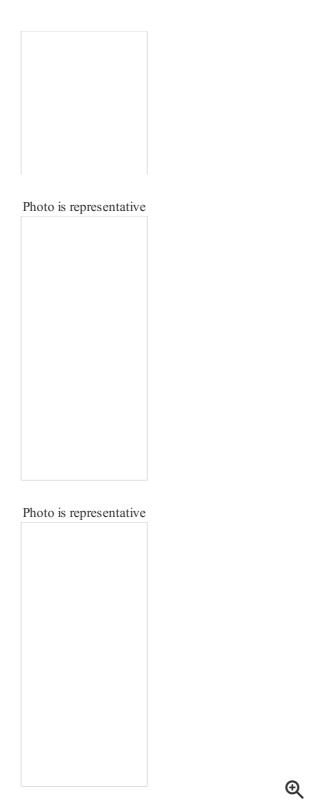


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Eaton Moeller® series DILA Auxiliary contact module, 4 pole, Ith= 16 A, 2 N/O, 2 NC, Front fixing, Screw terminals, DILA, DILM7 - DILM38

278452

Eaton Moeller® series ZB Overload relay, ZB32, Ir= 10 - 16 A, 1 N/O, 1 N/C, Direct mounting, IP20

278453

Eaton Moeller® series ZB Overload relay, ZB32, Ir= 16 - 24 A, 1 N/O, 1 N/C, Direct mounting, IP20

276427

Eaton Moeller® series DILA Au contact module, 4 pole, Ith= 16 NC, Front fixing, Screw termina DILM7 - DILM38

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GENERAL SPECIFICATIONS

General specifications	>	PRODUCTNAME	Eaton Moeller® series DILM contactor
•		CATALOG NUMBER	277292
Features & Functions	>	MODEL CODE	DILM32-01(230V50HZ,240V60HZ)
		EAN	4015082772925
General	>	PRO DUCT LENGTH/DEPTH	97 mm
		PRODUCTHEIGHT	85 mm
Ambient conditions, mechanical	>	PRODUCT WIDTH	45 mm
		PRODUCTWEIGHT	0.428 kg
Climatic environmental conditions	>	WARRANTY	Not Applicable
Electro Magnetic Compatibility	>		CSA Certified UL Listed IEC 60947-4-1 EN 60947-4-1
Terminal capacities	>		VDE 0660 IEC/EN 60947

Electrical Rating Short-circuit rating	>	CERTIFICATIONS	IEC/EN 60947-4-1 CSA-C22.2 No. 60947-4-1-14 UL File No.: E29096 CSA Class No.: 2411-03, 3211-04 CSA File No.: 012528 UL Category Control No.: NLDX UL UL 60947-4-1
Conventional thermal current	>		CE CSA
		CATALOG NOTES	Contacts according to EN 50012
Switching capacity	>		
Switching time	>	FEATURES & FUNCTIONS	
		FITTED WITH:	Mirror contact
Magnet system	>	NUMBER OF POLES	Three-pole
Motor Rating	>		
Communication	>	GENERAL	
Communication	,	APPLICATION	Contactors for Motors
Contacts	>	FRAME SIZE	FS2
		LIFESPAN, MECHANICAL	10,000,000 Operations (AC operated)
Safety	>	OPERATING FREQUENCY	5000 mechanical Operations/h (AC operated)
		OVERVOLTAGE CATEGORY	Ш
Special purpose ratings	>	POLLUTION DEGREE	3
		PRODUCT CATEGORY	Contactors
Design verification	>	PROTECTION	Finger and back-of-hand proof, Protection against di actuated from front (EN 50274)
		RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	8000 V AC
		RESISTANCE PER POLE	$2.7~\mathrm{m}\Omega$
		SUITABLE FOR	Also motors with efficiency class IE3
		ТҮРЕ	Full voltage reversing small contactor
		UTILIZATION CATEGORY	AC-1: Non-inductive or slightly inductive loads, re AC-3: Normal AC induction motors: starting, switch AC-4: Normal AC induction motors: starting, plug- inching
		VOLTAGE TYPE	AC

AMBIENT CONDITIONS, MECHANICAL

SHOCK RESISTANCE	5 g, N/C auxiliary contact, Mechanical, according to 27, Half-sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to I Half-sinusoidal shock 10 ms 5.3 g, N/O auxiliary contact, Mechanical, according 27 when tabletop-mounted, Half-sinusoidal shock 1 r g, N/O auxiliary contact, Mechanical, according to 27, Half-sinusoidal shock 10 ms 6.9 g, N/O main contact, Mechanical, according to when tabletop-mounted, Half-sinusoidal shock 10 m 3.5 g, N/C auxiliary contact, Mechanical, according 27 when tabletop-mounted, Half-sinusoidal shock 1
CLIMATIC ENVIRONMENTAL CONDITIONS	
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE - MAX	60 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	25 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT STO RAGE TEMPERATURE - MIN	40 °C
AMBIENT STO RAGE TEMPERATURE - MAX	80 °C
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
ELECTRO MAGNETIC COMPATIBILITY	
EMITIED INTERFERENCE	According to EN 60947-1
INTERFERENCE IMMUNITY	According to EN 60947-1
TERMINAL CAPACITIES	
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 1 x (0.75 - 16) mm ² , Main cables 2 x (0.75 - 10) mm ² , Main cables
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 16) mm ² , Main cables 2 x (0.75 - 2.5) mm ² , Control circuit cables 2 x (0.75 - 10) mm ² , Main cables 1 x (0.75 - 4) mm ² , Control circuit cables

TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14, Control circuit cables Single 18 - 6, double 18 - 8, Main cables
TERMINAL CAPACITY (STRANDED)	1 x 16 mm², Main cables
STRIPPING LENGTH (MAIN CABLE)	10 mm
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	10 mm
SCREW SIZE	M3.5, Terminal screw, Control circuit cables M5, Terminal screw, Main cables
SCREWDRIVER SIZE	0.8 x 5.5/1 x 6 mm, Terminal screw, Standard scre 2, Terminal screw, Pozidriv screwdriver
TIGHTENING TORQUE	1.2 Nm, Screw terminals, Control circuit cables3.2 Nm, Screw terminals, Main cables
ELECTRICAL RATING	
RATED BREAKING CAPACITY AT 220/230 V	320 A
RATED BREAKING CAPACITY AT 380/400 V	320 A
RATED BREAKING CAPACITY AT 500 V	320 A
RATED BREAKING CAPACITY AT 660/690 V	180 A
RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	45 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	32 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	32 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	32 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	32 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	18 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	15 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	15 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	15 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	12 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V	40 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V	40 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V	40 A

RATED INSULATION VOLTAGE (UI)	690 V
RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	45 A
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	11 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	15 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	19 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	4 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	4.5 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	7.5 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	8 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	9 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	10 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
SHORT-CIRCUIT RATING	
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	125 A, max. CB, SCCR (UL/CSA) 125 A, max. Fuse, SCCR (UL/CSA) 5 kA, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)	10/100 kA, Fuse, SCCR (UL/CSA) 50/32 A, max. CB, SCCR (UL/CSA) 125/70 A, Class J, max. Fuse, SCCR (UL/CSA) 10/65 kA, CB, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	10/22 kA, CB, SCCR (UL/CSA) 50/32 A, max. CB, SCCR (UL/CSA) 125/125 A, Class J, max. Fuse, SCCR (UL/CSA) 10/100 kA, Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V	125 A gG/gL
600 V) SHORT-CIRCUIT PROTECTION RATING (TYPE 1	10/22 kA, CB, SCCR (UL/CSA) 50/32 A, max. CB, SCCR (UL/CSA) 125/125 A, Class J, max. Fuse, SCCR (UL 10/100 kA, Fuse, SCCR (UL/CSA)

63 A gG/gL

63 A gG/gL

35 A gG/gL

SHORT-CIRCUIT PROTECTION RATING (TYPE 1

SHORT-CIRCUIT PROTECTION RATING (TYPE 2

SHORT-CIRCUIT PROTECTION RATING (TYPE 2

COORDINATION) AT 690 V

COORDINATION) AT 400 V

COORDINATION) AT 690 V

CONVENTIONAL THERMAL CURRENT

CONVENTIONAL THERMAL CURRENT ITH (3-POLE,	
ENCLOSED)	36 A
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	42 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN)	100 A

SWITCHING CAPACITY

SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	40 A, Maximum motor rating (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	10 A, 600 V AC, (UL/CSA) 1 A, 250 V DC, (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	P300, DC operated (UL/CSA) A600, AC operated (UL/CSA)

SWITCHING TIME

10 ms
16 ms
22 ms
8 ms
14 ms

MAGNET SYSTEM

DROP-OUT VOLTAGE	AC operated: 0.6 - 0.3 x UC, AC operated
DUTY FACTOR	100 %
PICK-UP VOLTAGE	0.8 - 1.1 V AC x Uc
POWER CONSUMPTION	15 kW
POWER CONSUMPTION. PICK-UP. 50 HZ	52 VA. Dual-frequency coil in a cold state and 1.0 x

,
67 VA, Dual-frequency coil in a cold state and 1.0 x
2.1 W, Dual-frequency coil in a cold state and 1.0 x 7.1 VA, Dual-frequency coil in a cold state and 1.0
8.7 VA, Dual-frequency coil in a cold state and 1.0 2.1 W, Dual-frequency coil in a cold state and 1.0 x
230 V
230 V
240 V
240 V
N 0 V
0 V
2 HP
10 HP
5 HP
10 HP
20 HP
20 nr
25 HP

CONTACTS

CONTACTS	
NUMBER OF CONTACTS	1 NC
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
SAFETY	
SAFEISOLATION	440 V AC, Between coil and contacts, According to 440 V AC, Between the contacts, According to EN
SPECIAL PURPOSE RATINGS	
SPECIAL PURPOSE RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS	40 A (480V 60Hz 3phase, 277V 60Hz 1phase) 40 A (600V 60Hz 3phase, 347V 60Hz 1phase)
SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING	32 A, FLA 480 V 60 Hz 3-ph, 100,000 cycles acc. (UL/CSA) 192 A, LRA 480 V 60 Hz 3-ph, 100,000 cycles acc (UL/CSA)
SPECIAL PURPOSE RATING OF ELEVATOR CONTROL	7.5 HP, 200 V 60 Hz 3-ph, (UL/CSA) 20 HP, 600 V 60 Hz 3-ph, (UL/CSA) 22 A, 240 V 60 Hz 3-ph, (UL/CSA) 25.3 A, 200 V 60 Hz 3-ph, (UL/CSA) 22 A, 600 V 60 Hz 3-ph, (UL/CSA) 7.5 HP, 240 V 60 Hz 3-ph, (UL/CSA) 20 HP, 480 V 60 Hz 3-ph, (UL/CSA) 27 A, 480 V 60 Hz 3-ph, (UL/CSA)
SPECIAL PURPOSE RATING OF REFRIGERATION CONTROL (CSA ONLY)	40 A, FLA 480 V 60 Hz 3phase; (CSA) 240 A, LRA 480 V 60 Hz 3phase; (CSA) 30 A, FLA 600 V 60 Hz 3phase; (CSA) 180 A, LRA 600 V 60 Hz 3phase; (CSA)
SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING	40 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (U 40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (U
SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS	40 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (U 40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (U

DESIGN VERIFICATION

EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID

HEAT DISSIPATION CAPACITY PDISS	0 W	
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	32 A	
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	
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to	
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	
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	
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to	
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.	
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.	
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.	
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.	
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	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	
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specification must be observed.	
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specification must be observed.	
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the initinstruction leaflet (IL) is observed.	

Catalogs		
Characteristic curve		
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