

< **DIL-KONTAKTORER**

239510



Overview



Specifications



Resources

Konta

239510

Eaton Moeller® series DILM Contactor, 3 pole, 380V AC, 250V DC, 27VDC, DC operation, Screw terminals DILM95(I)

Ta kontakt

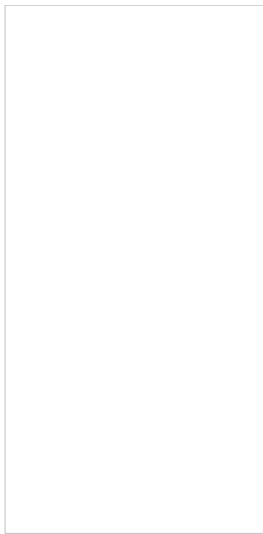


Photo is representative

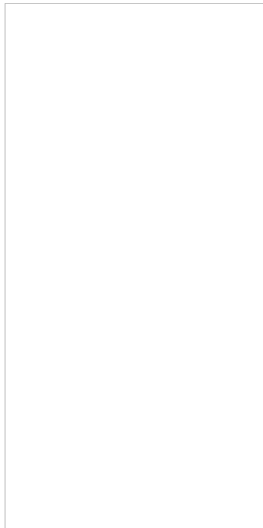


Photo is representative

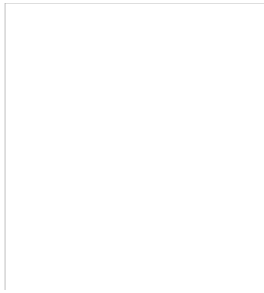


Photo is representative

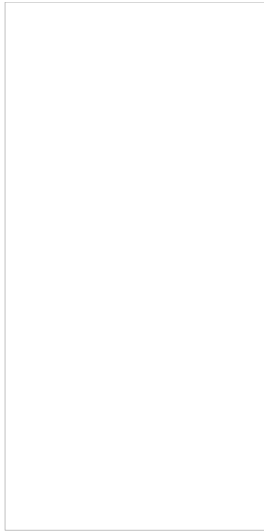


Photo is representative



Designed to work together

Discover other Eaton products and accessories built to enhance this product.

277950

Eaton Moeller® series DILM Auxiliary contact module, 4 pole, Ith= 16 A, 2 N/O, 2 NC, Front fixing, Screw terminals, DILM40 - DILM170

277946

Eaton Moeller® series DILM Auxiliary contact module, 2 pole, Ith= 16 A, 1 N/O, 1 NC, Front fixing, Screw terminals, DILM40 - DILM170

278464

Eaton Moeller® series ZB Overload relay, ZB150, Ir= 70 - 100 A, 1 N/O, 1 N/C, Direct mounting, IP00

278425

Eaton Moeller® series DILM Auxiliary contact module, 2 pole, Ith= 10 A, 1 N/O, 1 NC, Side mounted, Screw terminals, DILM40 - DILM225A, -SI

[View more](#)[View less](#)

GENERAL SPECIFICATIONS

General specifications	>	PRODUCT NAME	Eaton Moeller® series DILM contactor
		CATALOG NUMBER	239510
Global	>	MODEL CODE	DILM95(RDC24)
		EAN	4015082395100
General	>	PRODUCT LENGTH/DEPTH	160 mm
		PRODUCT HEIGHT	170 mm
Ambient conditions, mechanical	>	PRODUCT WIDTH	90 mm
		PRODUCT WEIGHT	2.32 kg
Climatic environmental conditions	>		CSA-C22.2 No. 60947-4-1-14 UL File No.: E29096 IEC/EN 60947-4-1
Electro Magnetic Compatibility	>		VDE 0660 UL 60947-4-1 UL Category Control No.: NLDX UL
Terminal capacities	>	CERTIFICATIONS	CSA File No.: 012528 CSA IEC/EN 60947 CE CSA Class No.: 2411-03, 3211-04
Electrical Rating	>		
Short-circuit rating	>	CATALOG NOTES	Contacts according to EN 50012
Conventional thermal current	>		
		GLOBAL	
Switching capacity	>	FITTED WITH:	Suppressor circuit in actuating electronics
		NUMBER OF POLES	Three-pole
Switching time	>		
Magnet system	>	GENERAL	
		APPLICATION	Contactors for Motors
Motor Rating	>	FRAME SIZE	FS4
		LIFESPAN, MECHANICAL	10,000,000 Operations (DC operated)
Communication	>	OPERATING FREQUENCY	3600 mechanical Operations/h (DC operated)
		OVERVOLTAGE CATEGORY	III

Contacts	>	POLLUTION DEGREE	3
Safety	>	PRODUCT CATEGORY	Contactors
Special purpose ratings	>	PROTECTION	Finger and back-of-hand proof, Protection against dirt actuated from front (EN 50274)
Design verification	>	RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	8000 V AC
		RESIDUAL CURRENT	1 mA (with actuation of A1 - A2 by the electronics)
		RESISTANCE PER POLE	0.6 mΩ
		SUITABLE FOR	Also motors with efficiency class IE3
		UTILIZATION CATEGORY	AC-3: Normal AC induction motors: starting, switching AC-1: Non-inductive or slightly inductive loads, resistive AC-4: Normal AC induction motors: starting, plugging, inching
		VOLTAGE TYPE	DC

AMBIENT CONDITIONS, MECHANICAL

SHOCK RESISTANCE

5 g, N/C auxiliary contact, Mechanical, according to IEC 60068-2-27 when tabletop-mounted, Halfsinusoidal shock 10 ms

7 g, N/O auxiliary contact, Mechanical, according to IEC 60068-2-27 when tabletop-mounted, Halfsinusoidal shock 10 ms

10 g, N/O main contact, Mechanical, according to IEC 60068-2-27, Halfsinusoidal shock 10 ms

5 g, N/C auxiliary contact, Mechanical, according to IEC 60068-2-27, Halfsinusoidal shock 10 ms

7 g, N/O auxiliary contact, Mechanical, according to IEC 60068-2-27, Halfsinusoidal shock 10 ms

10 g, N/O main contact, Mechanical, according to IEC 60068-2-27 when tabletop-mounted, Halfsinusoidal shock 10 ms

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 STORAGE TEMPERATURE - MIN	40 °C
AMBIENT STORAGE TEMPERATURE - MAX	80 °C

CLIMATIC PROOFING

Damp heat, cyclic, to IEC 60068-2-30

ELECTRO MAGNETIC COMPATIBILITY

EMITTED INTERFERENCE	According to EN 60947-1
INTERFERENCE IMMUNITY	According to EN 60947-1
TERMINAL CAPACITIES	
TERMINAL CAPACITY (COPPER BAND)	2 x (6 x 16 x 0.8) mm (Number of segments x width of cables)
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (10 - 50) mm ² , Main cables 2 x (0.75 - 2.5) mm ² , Control circuit cables 1 x (0.75 - 2.5) mm ² , Control circuit cables 1 x (10 - 70) mm ² , Main cables
TERMINAL CAPACITY (SOLID)	2 x (0.75 - 2.5) mm ² , Control circuit cables 1 x (0.75 - 4) mm ² , Control circuit cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	Single 8...3/0, double 8...2/0, Main cables 18 - 14, Control circuit cables
TERMINAL CAPACITY (STRANDED)	1 x (16 - 70) mm ² , Main cables 2 x (16 - 50) mm ² , Main cables
STRIPPING LENGTH (MAIN CABLE)	24 mm
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	10 mm
SCREW SIZE	M10, Terminal screw, Main cables 5 mm AF, Hexagon socket-head spanner, Terminal M3.5, Terminal screw, Control circuit cables
SCREWDRIVER SIZE	2, Terminal screw, Control circuit cables, Pozidriv 0.8 x 5.5/1 x 6 mm, Terminal screw, Control circuit screwdriver
TIGHTENING TORQUE	1.2 Nm, Screw terminals, Control circuit cables 14 Nm, Screw terminals, Main cables

ELECTRICAL RATING

RATED BREAKING CAPACITY AT 220/230 V	950 A
RATED BREAKING CAPACITY AT 380/400 V	950 A
RATED BREAKING CAPACITY AT 500 V	950 A
RATED BREAKING CAPACITY AT 660/690 V	800 A

RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	130 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	95 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	95 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	95 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	95 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	80 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	50 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	50 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	50 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	37 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V	110 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V	110 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V	70 A
RATED INSULATION VOLTAGE (UI)	690 V
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	32 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	45 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	57 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	16 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	17 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	30 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	32 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	36 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	35 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V

SHORT-CIRCUIT RATING

SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	600 A, max. Fuse, SCCR (UL/CSA) 600 A, max. CB, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)	65 kA, CB, SCCR (UL/CSA) 250 A, max. CB, SCCR (UL/CSA) 30/100 kA, Fuse, SCCR (UL/CSA) 300/300 A, Class J, max. Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	300/300 A, Class J, max. Fuse, SCCR (UL/CSA) 30/100 kA, Fuse, SCCR (UL/CSA) 30 kA, CB, SCCR (UL/CSA) 350 A, max. CB, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V	200 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V	250 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V	160 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V	160 A gG/gL
CONVENTIONAL THERMAL CURRENT	
CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	250 A
CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)	100 A
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	115 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN)	275 A
SWITCHING CAPACITY	
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	125 A, Maximum motor rating (UL/CSA)
SWITCHING TIME	
ARCING TIME	15 ms
SWITCHING TIME (DC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	45 ms
SWITCHING TIME (DC OPERATED, MAKE CONTACTS,	34 ms

MAGNET SYSTEM

DROP-OUT VOLTAGE	0.6 - 0.15 x UC, DC operated At least smoothed two-phase bridge rectifier or three
DUTY FACTOR	100 %
PICK-UP VOLTAGE	0.7 - 1.2 V DC x Uc 24 - 27 V DC (RDC 24)
POWER CONSUMPTION (PICK-UP) AT DC	90 W
POWER CONSUMPTION (SEALING) AT DC	1.5 W
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	27 V

MOTOR RATING

ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE	7.5 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	30 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	15 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	40 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	75 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	100 HP

COMMUNICATION

CONNECTION	Screw terminals
CONNECTION TO SMARTWIRE-DT	No

CONTACTS

NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
--	---

SAFETY

SAFE ISOLATION	690 V AC, Between coil and contacts, According to 690 V AC, Between the contacts, According to EN
-----------------------	--

SPECIAL PURPOSE RATINGS

SPECIAL PURPOSE RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS	100 A (600V 60Hz 3phase, 347V 60Hz 1phase) 100 A (480V 60Hz 3phase, 277V 60Hz 1phase)
SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING	95 A, FLA 480 V 60 Hz 3-ph, 100,000 cycles acc. (UL/CSA) 570 A, LRA 480 V 60 Hz 3-ph, 100,000 cycles acc. (UL/CSA)
SPECIAL PURPOSE RATING OF ELEVATOR CONTROL	75 HP, 600 V 60 Hz 3-ph, (UL/CSA) 62.1 A, 200 V 60 Hz 3-ph, (UL/CSA) 77 A, 480 V 60 Hz 3-ph, (UL/CSA) 80 A, 240 V 60 Hz 3-ph, (UL/CSA) 60 HP, 480 V 60 Hz 3-ph, (UL/CSA) 30 HP, 240 V 60 Hz 3-ph, (UL/CSA) 77 A, 600 V 60 Hz 3-ph, (UL/CSA) 20 HP, 200 V 60 Hz 3-ph, (UL/CSA)
SPECIAL PURPOSE RATING OF REFRIGERATION CONTROL (CSA ONLY)	90 A, FLA 480 V 60 Hz 3phase; (CSA) 540 A, LRA 480 V 60 Hz 3phase; (CSA) 70 A, FLA 600 V 60 Hz 3phase; (CSA) 420 A, LRA 600 V 60 Hz 3phase; (CSA)
SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING	100 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, 100 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase,
SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS	100 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, 100 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase,

DESIGN VERIFICATION

EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	12.6 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	4.2 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	95 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	1.5 W
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 rise. Eaton will provide heat dissipation data for the device.
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specifications must be observed.
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specifications must be observed.

Catalogs

Characteristic curve

Declarations of conformity

Drawings

eCAD model

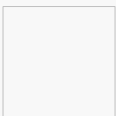
Installation instructions

Installation videos

mCAD model

System overview

Wiring diagrams



Kontakt oss



Eaton is an intelligent power management company dedicated to improving the quality of life and protecting the environment for people everywhere. We are guided by our commitment to do business right, to operate sustainably and to help our customers manage power — today and well into the future. By capitalizing on the global growth trends of electrification and digitalization, we're accelerating the planet's transition to renewable energy and helping to solve the world's most urgent power management challenges.