Specifications

Photo is representative

Eaton 277135

Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 11 kW, 1 N/O, 415 V 50 Hz, 480 V 60 Hz, AC operation, Screw terminals

General specification	าร
PRODUCT NAME	Eaton Moeller® series DILM contactor
CATALOG NUMBER	277135
MODEL CODE	DILM25- 10(415V50HZ,480V60HZ)
EAN	4015082771355
PRODUCT LENGTH/DEPTH	97 mm
PRODUCT HEIGHT	85 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.428 kg
CERTIFICATIONS	UL CSA IEC/EN 60947 VDE 0660
CATALOG NOTES	Contacts according to EN 50012
GLOBAL CATALOG	277135



Product enseification	- -
Product specification USED WITH	Can be combined with auxiliary contacts: DILM32-XHI, DILA-XHI(V)
ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT	Screw connection
AMPERAGE RATING	170A
NUMBER OF POLES	Three-pole
ТҮРЕ	Full voltage non-reversing small contactor
VOLTAGE RATING	400 V
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	Meets the product

CATALOGS EATHORS CATALOGS Eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf Product Range Catalog Switching and protecting motors eaton-contactors-component-dilm-characteristic-curve-003.eps eaton-contactors-switch-dilm-characteristic-curve-002.eps DECLARATIONS OF CONFORMITY DECLARATIONS OF CONFORMITY DA-DC-00004783.pdf eaton-contactors-witch-dilm-characteristic-curve-002.eps DRAWINGS DRAWINGS DRAWINGS Eaton-contactors-dilm-dimensions-210x202.eps eaton-contactors-mounting-dilm-dimensions-eps eaton-contactors-mounting-dilm-dimensions-002.eps eaton-contactors-mounting-dilm-dimensions-002.eps eaton-contactors-mounting-dilm-dimensions-002.eps eaton-contactors-mounting-dilm-dimensions-002.eps eaton-contactors-dilm-3d-drawing-009.eps ECAD MODEL INSTALLATION INSTRUCTIONS IL03407014Z2021 09.pdf WIN-WIN with push-in technology DA-CS-dil m17 38 DA-CD-dil m17 38 SPECIFICATIONS AND DATASHEETS Product Range Catalog Switching and protecting motors eaton-contactors-switch-dilm-dimensions-witch-dilm-dimensions-contactors-dilm-dimensions-210x02.eps eaton-contactors-dilm-3d-drawing-009.eps ECAD MODEL ETN.277135.edz	Resources	
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ULTRA-VIOLET (UV) RADIATION	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.
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	Is the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls 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	ls the panel builder's responsibility.
FREQUENCY RATING	50-60 Hz
OPERATING FREQUENCY	5000 mechanical Operations/h (AC operated)
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
CONNECTION TO SMARTWIRE-DT	No
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	8000 V AC
UTILIZATION CATEGORY	AC-4: Normal AC induction

SYSTEM OVERVIEW	eaton-contactors-dilm- contactor-system- overview.eps
WIRING DIAGRAMS	eaton-contactors-contact- dilm-wiring-diagram.eps

	motors: starting, plugging, reversing, inching AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-3: Normal AC induction motors: starting, switch off during running
CONNECTION	Screw terminals
FRAME SIZE	FS2
AMBIENT OPERATING TEMPERATURE - MAX	60 °C
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
CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	90 A
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
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	4.2 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	1.4 W
APPLICATION	Contactors for Motors
PRODUCT CATEGORY	Contactors
PROTECTION	Finger and back-of-hand proof, Protection against

	direct contact when actuated from front (EN 50274)
TERMINALS	Screw terminals
ARCING TIME	10 ms
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
SCREWDRIVER SIZE	2, Terminal screw, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver
VOLTAGE TYPE	AC
DEGREE OF PROTECTION	IP00
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 CONTACTS (NORMALLY OPEN CONTACTS)	1
NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	3
OPERATING TEMPERATURE - MAX	60 °C
OPERATING TEMPERATURE - MIN	-40 °C
RATED BREAKING CAPACITY AT 220/230 V	250 A
RATED BREAKING CAPACITY AT 380/400 V	250 A
RATED BREAKING CAPACITY AT 500 V	250 A
RATED BREAKING CAPACITY AT 660/690 V	150 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	415 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	415 V

RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 480 V HZ - MAX RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 480 V HZ - MIN	
VOLTAGE (US) AT AC, 60 480 V	
COIL VOLTAGE 415-480 Vac, 50/60 Hz	
CONTACT 1 NO	
CONTINUOUS AMPERE ATING 170 A	
DROP-OUT VOLTAGE AC operated: 0.6 - 0.3 x UC, AC operated	
OVERVOLTAGE III	
DUTY FACTOR 100 %	
NUMBER OF CONTACTS 1 NO	
EMITTED INTERFERENCE According to EN 60947-1	
OPERATION Reversing	
INTERFERENCE According to EN 60947-1	
LIFESPAN, MECHANICAL 10,000,000 Operations (A operated)	C
PICK-UP VOLTAGE 0.8 - 1.1 V AC x Uc	
POWER CONSUMPTION, PICK-UP, 50 HZ 52 VA, Dual-frequency co in a cold state and 1.0 x Us, at 50 Hz	il
SAFE ISOLATION 440 V AC, Between coil and contacts, According to EN 61140 440 V AC, Between the contacts, According to EN 61140	
POWER CONSUMPTION, PICK-UP, 60 HZ 67 VA, Dual-frequency co in a cold state and 1.0 x Us, at 60 Hz	il
SCREW SIZE M5, Terminal screw, Main cables M3.5, Terminal screw, Control circuit cables	1
7.1 VA, Dual-frequency coin a cold state and 1.0 x POWER CONSUMPTION, SEALING, 50 HZ 2.1 W, Dual-frequency coin a cold state and 1.0 x Us, at 50 Hz	
POWER CONSUMPTION, SEALING, 60 HZ 2.1 W, Dual-frequency coin a cold state and 1.0 x	il

	8.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
TERMINAL CAPACITY (STRANDED)	1 x 16 mm², Main cables
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (0.75 - 10) mm², Main cables 1 x (0.75 - 2.5) mm², Control circuit cables 1 x (0.75 - 16) mm², Main cables 2 x (0.75 - 2.5) mm², Control circuit cables
SHOCK RESISTANCE	10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 5.3 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletopmounted, Half-sinusoidal shock 10 ms 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 6.9 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Halfsinusoidal shock 10 ms 3.5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Halfsinusoidal shock 10 ms 3.5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms
TERMINAL CAPACITY (SOLID)	2 x (0.75 - 10) mm ² , Main cables 1 x (0.75 - 4) mm ² , Control circuit cables 1 x (0.75 - 16) mm ² , Main cables 2 x (0.75 - 2.5) mm ² , Control circuit cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	Single 18 - 6, double 18 - 8, Main cables 18 - 14, Control circuit cables

POWER CONSUMPTION	11 kW
TIGHTENING TORQUE	1.2 Nm, Screw terminals,Control circuit cables3.2 Nm, Screw terminals,Main cables
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 V
RATED INSULATION VOLTAGE (UI)	690 V
RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947)	350 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	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	15 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	13 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	13 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	13 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	13 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	10 A

RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V	40 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V	40 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V	40 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	25 A
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	8.5 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	11 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	14.5 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	3.5 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	4 kW
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	6 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	6.5 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	7 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	8 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	8.5 kW
RATED OPERATIONAL POWER (NEMA)	11 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RESISTANCE PER POLE	2.7 mΩ
STATIC HEAT DISSIPATION, NON-	2.1 W

CURRENT-DEPENDENT PVS	
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	10 mm
STRIPPING LENGTH (MAIN CABLE)	10 mm
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	22 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	16 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	14 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	8 ms
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V	100 A gG/gL
SUITABLE FOR	Also motors with efficiency class IE3
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V	50 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V	35 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V	35 A gG/gL
OPERATING TEMPERATURE	-40° to 60°C
CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	45 A
THERMAL CURRENT ITH	45 A 43 A

THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)	
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	15.5 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	17.5 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	14 kW
ACTUATING VOLTAGE	415 V 50 Hz, 480 V 60 Hz
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	600 V

690 V

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



AC, 60 HZ - MAX

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