Specifications

Photo is representative

Eaton 277167

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

General specification	าร
PRODUCT NAME	Eaton Moeller® series DILM contactor
CATALOG NUMBER	277167
MODEL CODE	DILM25- 01(415V50HZ,480V60HZ)
EAN	4015082771676
PRODUCT LENGTH/DEPTH	97 mm
PRODUCT HEIGHT	85 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.428 kg
CERTIFICATIONS	CSA Certified UL Listed IEC 60947-4-1 EN 60947-4-1 IEC/EN 60947 UL VDE 0660 CSA
CATALOG NOTES	Contacts according to EN 50012
GLOBAL CATALOG	277167



ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROI-CURRENT CIRCUIT AMPERAGE RATING NUMBER OF POLES TYPE TYPE 10.10 TEMPERATURE RISE 10.11 SHORT-CIRCUIT RATING 10.12 ELECTROMAGNETIC COMPATIBILITY 10.13 MECHANICAL FUNCTION 10.2.3 VERIFICATION OF RESISTANCE 10.2.3.1 VERIFICATION OF RESISTANCE 10.2.3.2 VERIFICATION OF RISIDATION 10.2.3.3 RESIST. OF INSULATING MATERIALS TO NORMAL HEAT 10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION 10.2.5 LIFTING 1700 170	Product specification	S
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TYPE Full voltage non-reversing small contactor VOLTAGE RATING 400 V The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. Io.11 SHORT-CIRCUIT RATING Is the panel builder's responsibility. The specifications for the switchgear must be observed. Is the panel builder's responsibility. The specifications for the switchgear must be observed. Is the panel builder's responsibility. The specifications for the switchgear must be observed. The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. 10.2.2 CORROSION RESISTANCE 10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES 10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT 10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS 10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION Meets the product standard's requirements. Meets the product standard's requirements.	AMPERAGE RATING	170A
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ULTRA-VIOLET (UV) RADIATION Meets the product standard's requirements.	INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT.	-
10.2.5 LIFTING Does not apply, since the	ULTRA-VIOLET (UV)	
	10.2.5 LIFTING	Does not apply, since the

Resources	
	SmartWire-DT Catalog
CATALOGS	Product Range Catalog Switching and protecting motors
	eaton-product-overview- for-machinery-catalogue- ca08103003zen-en-us.pdf
	eaton-contactors-switch- dilm-characteristic- curve.eps
CHARACTERISTIC CURVE	eaton-contactors- component-dilm- characteristic-curve- 003.eps
	eaton-contactors-switch-dilm-characteristic-curve-002.eps
DECLARATIONS OF	DA-DC-00004783.pdf
CONFORMITY	DA-DC-00004816.pdf
	eaton-contactors- mounting-dilm- dimensions.eps
	eaton-contactors- mounting-dilm- dimensions-002.eps
DRAWINGS	eaton-contactors- dimensions-210t014.eps
	eaton-contactors-contact- dimensions-210x202.eps
	eaton-general-ie-ready- dilm-contactor-
	standards.eps
	eaton-contactors-dilm-3d-drawing-009.eps
ECAD MODEL	ETN.277167.edz
INSTALLATION INSTRUCTIONS	IL03407014Z2021 09.pdf
INSTALLATION VIDEOS	WIN-WIN with push-in technology
	DA-CD-dil m17 38
MCAD MODEL	DA-CS-dil m17 38
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - 277167

	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	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	ls the panel builder's responsibility.
FITTED WITH:	Mirror contact
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-1: Non-inductive or slightly inductive loads,

resistance furnaces

SYSTEM OVERVIEW	eaton-contactors-dilm- contactor-system- overview.eps
WIRING DIAGRAMS	2100SWI-117

AC-3: Normal AC induction motors: starting, switch off during running AC-4: Normal AC induction motors: starting, plugging, reversing, inching CONNECTION Screw terminals FRAME SIZE FS2 AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX AMBIENT STORAGE TEMPERATURE (ENCLOSED) - MIN AMBIENT STORAGE TEMPERATURE - MIN CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH AT 55° C3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN) CONVENTION, CURRENT-DEPENDENT PVID HEAT DISSIPATION, CURRENT-DEPENDENT PVID HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID APPLICATION Contactors for Motors PRODUCT CATEGORY Contactors Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN)		
FRAME SIZE AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN AMBIENT STORAGE TEMPERATURE - MAX AMBIENT STORAGE TEMPERATURE - MIN CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN) EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID HEAT DISSIPATION CAPACITY PDISS HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID APPLICATION CONTACTS Finger and back-of-hand proof, Protection against direct contact when		motors: starting, switch off during running AC-4: Normal AC induction motors: starting, plugging,
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THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN) EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID HEAT DISSIPATION CAPACITY PDISS HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID APPLICATION COntactors for Motors PRODUCT CATEGORY Finger and back-of-hand proof, Protection against direct contact when	THERMAL CURRENT ITH	36 A
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DISSIPATION, CURRENT- DEPENDENT PVID HEAT DISSIPATION CAPACITY PDISS HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID APPLICATION Contactors for Motors PRODUCT CATEGORY Contactors Finger and back-of-hand proof, Protection against direct contact when	THERMAL CURRENT ITH OF MAIN CONTACTS (1-	100 A
CAPACITY PDISS HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID APPLICATION Contactors for Motors PRODUCT CATEGORY Contactors Finger and back-of-hand proof, Protection against direct contact when	DISSIPATION, CURRENT-	4.2 W
POLE, CURRENT- DEPENDENT PVID APPLICATION Contactors for Motors PRODUCT CATEGORY Contactors Finger and back-of-hand proof, Protection against direct contact when		0 W
PRODUCT CATEGORY Contactors Finger and back-of-hand proof, Protection against direct contact when	POLE, CURRENT-	1.4 W
PROTECTION Finger and back-of-hand proof, Protection against direct contact when	APPLICATION	Contactors for Motors
PROTECTION proof, Protection against direct contact when	PRODUCT CATEGORY	Contactors
	PROTECTION	proof, Protection against direct contact when

	50274)
TERMINALS	Screw terminals
ARCING TIME	10 ms
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
SCREWDRIVER SIZE	0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
VOLTAGE TYPE	AC
DEGREE OF PROTECTION	IP00
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT	0
NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	3
OPERATING TEMPERATURE - MAX	60 °C
OPERATING TEMPERATURE - MIN	-25 °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 HZ - MIN	480 V
COIL VOLTAGE	415-480 Vac, 50/60 Hz
CONTACT CONFIGURATION	1 NC
CONTINUOUS AMPERE RATING	25 A
DROP-OUT VOLTAGE	AC operated: 0.6 - 0.3 x UC, AC operated
OVERVOLTAGE CATEGORY	III
DUTY FACTOR	100 %
NUMBER OF CONTACTS	1 NC
EMITTED INTERFERENCE	According to EN 60947-1
OPERATION	Reversing
INTERFERENCE IMMUNITY	According to EN 60947-1
LIFESPAN, MECHANICAL	10,000,000 Operations (AC operated)
PICK-UP VOLTAGE	0.8 - 1.1 V AC x Uc
POWER CONSUMPTION, PICK-UP, 50 HZ	52 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
SAFE ISOLATION	440 V AC, Between the contacts, According to EN 61140 440 V AC, Between coil and contacts, According to EN 61140
POWER CONSUMPTION, PICK-UP, 60 HZ	67 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
SCREW SIZE	M5, Terminal screw, Main cables M3.5, Terminal screw, Control circuit cables
POWER CONSUMPTION, SEALING, 50 HZ	2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 7.1 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
POWER CONSUMPTION, SEALING, 60 HZ	8.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 2.1 W, 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 - 16) mm², Main cables 2 x (0.75 - 2.5) mm², Control circuit cables 1 x (0.75 - 2.5) mm², Control circuit cables
SHOCK RESISTANCE	7 g, N/O auxiliary 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 3.5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletopmounted, Half-sinusoidal shock 10 ms 10 g, N/O main 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 5.3 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Halfsinusoidal shock 10 ms 5.3 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 16) mm², Main cables 2 x (0.75 - 10) mm², Main cables 1 x (0.75 - 4) mm², Control circuit cables 2 x (0.75 - 2.5) mm², 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 cables 3.2 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,	40 A

110 V	
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- CURRENT-DEPENDENT PVS	2.1 W

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
SUITABLE FOR SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V	-
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION)	class IE3
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION)	class IE3 50 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION)	class IE3 50 A gG/gL 35 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V OPERATING	class IE3 50 A gG/gL 35 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V OPERATING TEMPERATURE CONVENTIONAL THERMAL CURRENT ITH	class IE3 50 A gG/gL 35 A gG/gL 35 A gG/gL -25° to 60°C

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 AC, 60 HZ - MAX	690 V

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



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