

DILA CONTACTOR RELAY
276364



Overview



Specifications



Resources

How to buy

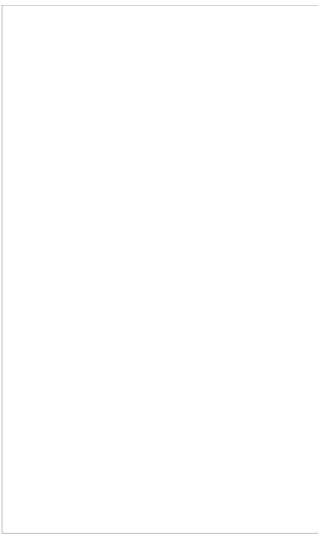


Photo is representative

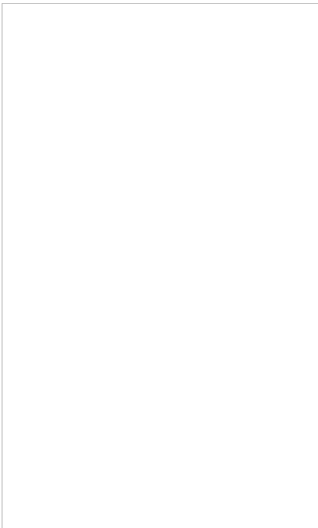


Photo is representative

276364

Eaton Moeller® series DILA Contactor relay, 230 V
NC, Screw terminals, AC operation

How to buy

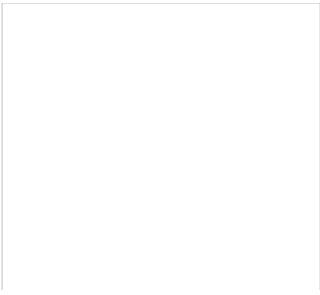


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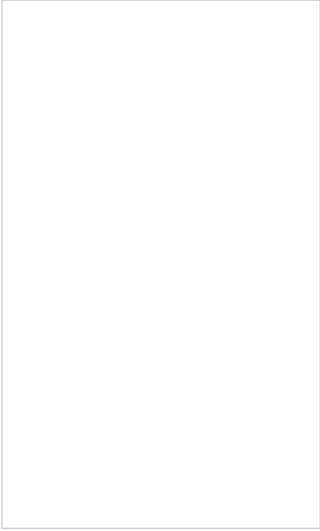


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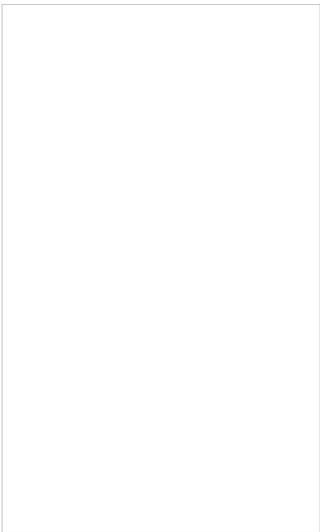


Photo is representative



Designed to work together

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276426

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

276427

Eaton Moeller® series DILA Auxiliary contact module, 4 pole, Ith= 16 A, 3 N/O, 1 NC, Front fixing, Screw terminals, DILA, DILM7 - DILM38

276421

Eaton Moeller® series DILA Auxiliary contact module, 2 pole, Ith= 16 A, 1 N/O, 1 NC, Front fixing, Screw terminals, DILA, DILM7 - DILM38

101672

Eaton Moeller® series DILM Di suppressor, for DILA, M7-15

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GENERAL SPECIFICATIONS

General specifications

>

PRODUCT NAME

Eaton Moeller® series DILA Control Relay

CATALOG NUMBER

276364

Product specifications

>

MODEL CODE

DILA-31(230V50HZ,240V60HZ)

EAN

4015082763640

PRODUCT LENGTH/DEPTH

75 mm

PRODUCT HEIGHT

68 mm

PRODUCT WIDTH

45 mm

PRODUCT WEIGHT

0.24 kg

CERTIFICATIONS

UL
 UL File No.: E29184
 CSA File No.: 012528
 EN 60947-5-1
 CE
 CSA
 CSA Class No.: 3211-03
 CSA-C22.2 No. 14-05
 VDE 0660
 IEC/EN 60947-4-1
 IEC/EN 60947
 UL 508
 UL Category Control No.: NKCR

PRODUCT SPECIFICATIONS

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	15.5 A
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 2.5) mm ² , Screw terminals 2 x (0.75 - 2.5) mm ² , Screw terminals
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specifications must be observed.
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	230 V
CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)	16 A
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
MOUNTING METHOD	DIN-rail/screw
OPERATING VOLTAGE AT DC - MAX	220 VDC
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.
AMBIENT STORAGE TEMPERATURE - MIN	40 °C
FITTED WITH:	Positive operation contacts
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	230 V
OPERATING VOLTAGE AT DC - MIN	24 VDC
AMBIENT OPERATING TEMPERATURE - MAX	60 °C
FEATURES	Positive operating contacts to EN 60947-5-1 appendix auxiliary contact module
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	Contact relays
RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V	4 A
OPERATING FREQUENCY	9000 Operations/h
VOLTAGE TYPE	AC
PRODUCT CATEGORY	DILA relays
POWER CONSUMPTION, PICK-UP, 50 HZ	24 VA, AC, Single-frequency coil 50 Hz and Dual-f Hz
HEAT DISSIPATION CAPACITY (IN)	15.5 A

HEAT DISSIPATION CAPACITY PDISS	0 W
CONNECTION TYPE (AUXILIARY CIRCUIT)	Screw connection
SHORT-CIRCUIT PROTECTION RATING WITHOUT WELDING	10 A gG/gL, 500 V, Max. Fuse, Contacts
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	9 ms
OPERATING VOLTAGE AT AC, 60 HZ - MAX	500 V
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14, Screw terminals
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
DEGREE OF PROTECTION	IP20
OVERVOLTAGE CATEGORY	III
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	18 ms
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
VOLTAGE TYPE OF OPERATING VOLTAGE	AC/DC
POLLUTION DEGREE	3
POWER CONSUMPTION, PICK-UP, 60 HZ	24 VA, AC, Single-frequency coil 50 Hz and Dual-freq. coil 50 Hz
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	21 ms
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
OPERATING VOLTAGE AT AC, 60 HZ - MIN	17 V
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.
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	3
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	15 ms
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	3
SHOCK RESISTANCE	5 g, N/C auxiliary contact, Basic unit with auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half sine wave, 11 ms 7 g, N/O auxiliary contact, Basic unit with auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half sine wave, 11 ms
POWER CONSUMPTION, SEALING, 60 HZ	1.4 W, AC, Single-frequency coil 50 Hz and Dual-frequency coil 50 Hz

AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	25 °C
OPERATING VOLTAGE AT AC, 50 HZ - MAX	500 V
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specifications must be observed.
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be lifted.
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS, DELAYED SWITCHING)	0
STRIPPING LENGTH (MAIN CABLE)	10 mm
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 V
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
SCREW SIZE	M3.5, Terminal screw
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS, LEADING)	0
PROTECTION	Finger and back-of-hand proof, Protection against dirt, actuated from front (EN 50274)
POWER CONSUMPTION, SEALING, 50 HZ	1.4 W, AC, Single-frequency coil 50 Hz and Dual-frequency coil 50 Hz 3.4 VA, AC, Single-frequency coil 50 Hz and Dual-frequency coil 50 Hz
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
CODE NUMBER	31E
CONNECTION TO SMARTWIRE-DT	No
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	1.4 W
RATED OPERATIONAL CURRENT (IE) AT AC-15, 500 V	1.5 A
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to be lifted.
SAFE ISOLATION	400 V AC, Between auxiliary contacts, According to IEC 60071-1 400 V AC, Between coil and auxiliary contacts, According to IEC 60071-1
OPERATING VOLTAGE AT AC, 50 HZ - MIN	17 V
RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V	4 A
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the installation is correct.

	instruction leaflet (IL) is observed.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	1
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0.5 W
ACTUATING VOLTAGE	230 V 50 Hz, 240 V 60 Hz
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	1 A, 250 V DC, (UL/CSA) 15 A, 600 V AC, (UL/CSA)
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
RATED SWITCH CURRENT	16 A
RATED OPERATIONAL CURRENT (IE)	1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in s 3 A at 110 V, DC L/R ≤ 15 ms (with 1 contact in s 1 A at 220 V, DC L/R ≤ 50 ms (with 3 contacts in s 10 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in s 4 A at 60 V, DC L/R ≤ 50 ms (with 3 contacts in s 6 A at 110 V, DC L/R ≤ 15 ms (with 3 contacts in s 5 A at 220 V, DC L/R ≤ 15 ms (with 3 contacts in s 2 A at 110 V, DC L/R ≤ 50 ms (with 3 contacts in s 6 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in se 10 A at 60 V, DC L/R ≤ 15 ms (with 2 contacts in s 4 A at 24 V, DC L/R ≤ 50 ms (with 3 contacts in s 16 A
PICK-UP VOLTAGE	0.8 - 1.1 V AC x Uc (voltage tolerance - single-volt dual-voltage coil 50 Hz, 60 Hz)
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 4) mm ² , Screw terminals 2 x (0.75 - 2.5) mm ² , Screw terminals
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	1
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.
LIFESPAN, MECHANICAL	20,000,000 Operations (AC operated)
CONTROL CIRCUIT RELIABILITY	$\lambda < 5 \times 10^{-7}$ (1 failure at 2,000,000 operations for U = 17 V, I _{min} = 5.4 mA)
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	240 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
SCREWDRIVER SIZE	2, Terminal screw, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screw
DUTY FACTOR	100 %
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	240 V
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	P300, DC operated (UL/CSA) A600, AC operated (UL/CSA)
RATED INSULATION VOLTAGE (UI)	690 V

Catalogs

Characteristic curve

Declarations of conformity

Drawings

eCAD model

Installation instructions

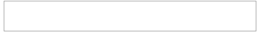
Installation videos

mCAD model

PEP Eco-passport

System overview

Wiring diagrams



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