## Specifications

Photo is representative

## Eaton 276325

Eaton Moeller® series DILA Contactor relay, 42 V 50 Hz, 48 V 60 Hz, 4 N/O, Screw terminals, AC operation

General specification	ns
PRODUCT NAME	Eaton Moeller® series DILA Control relay
CATALOG NUMBER	276325
MODEL CODE	DILA- 40(42V50HZ,48V60HZ)
EAN	4015082763251
PRODUCT LENGTH/DEPTH	75 mm
PRODUCT HEIGHT	68 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.237 kg
CERTIFICATIONS	CE CSA Class No.: 3211-03 UL Category Control No.: NKCR UL File No.: E29184 CSA-C22.2 No. 14-05 IEC/EN 60947 IEC/EN 60947-4-1 EN 60947-5-1 CSA UL UL 508 CSA File No.: 012528 VDE 0660



Features & Functions	5
FEATURES	Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module
FITTED WITH:	Positive operation contacts

General	
APPLICATION	Contactor relays
DEGREE OF PROTECTION	IP20
SHOCK RESISTANCE	5 g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 7 g, N/O auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms
LIFESPAN, MECHANICAL	20,000,000 Operations (AC operated)
MOUNTING METHOD	DIN-rail/screw
CONNECTION	Screw terminals
OPERATING FREQUENCY	9000 Operations/h
OVERVOLTAGE CATEGORY	Ш
POLLUTION DEGREE	3
PRODUCT CATEGORY	DILA relays
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
VOLTAGE TYPE	AC

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, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Terminal capacities	
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 2.5) mm <sup>2</sup> , Screw terminals 2 x (0.75 - 2.5) mm <sup>2</sup> , Screw terminals
TERMINAL CAPACITY (SOLID)	$2 \times (0.75 - 2.5) \text{ mm}^2$ , Screw terminals $1 \times (0.75 - 4) \text{ mm}^2$ , Screw terminals
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14, Screw terminals
STRIPPING LENGTH (MAIN CABLE)	10 mm
SCREW SIZE	M3.5, Terminal screw
SCREWDRIVER SIZE	0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver

Electrical rating	
RATED OPERATIONAL CURRENT (IE)	3 A at 110 V, DC L/R ≤ 15 ms (with 1 contact in series) 4 A at 60 V, DC L/R ≤ 50 ms (with 3 contacts in series) 6 A at 110 V, DC L/R ≤ 15 ms (with 3 contacts in series) 6 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series) 1 A at 220 V, DC L/R ≤ 50 ms (with 3 contacts in series) 4 A at 24 V, DC L/R ≤ 50 ms (with 3 contacts in series) 10 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series) 2 A at 110 V, DC L/R ≤ 15 ms (with 3 contacts in series) 1 A at 220 V, DC L/R ≤ 50 ms (with 3 contacts in series) 1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in series) 1 A at 220 V, DC L/R ≤ 15 ms (with 2 contacts in series) 5 A at 220 V, DC L/R ≤ 15 ms (with 3 contacts in series) 5 A at 220 V, DC L/R ≤ 15 ms (with 3 contacts in series) 5 A at 220 V, DC L/R ≤ 15 ms (with 3 contacts in series)
RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V	4 A
RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V	4 A
RATED OPERATIONAL CURRENT (IE) AT AC-15, 500 V	1.5 A
RATED INSULATION VOLTAGE (UI)	690 V
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
SHORT-CIRCUIT PROTECTION RATING WITHOUT WELDING	10 A gG/gL, 500 V, Max. Fuse, Contacts
SAFE ISOLATION	400 V AC, Between auxiliary contacts, According to EN 61140 400 V AC, Between coil

Magnet system	
DUTY FACTOR	100 %
PICK-UP VOLTAGE	0.8 - 1.1 V AC x Uc (voltage tolerance - single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz)
POWER CONSUMPTION, PICK-UP, 50 HZ	24 VA, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
POWER CONSUMPTION, PICK-UP, 60 HZ	24 VA, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
POWER CONSUMPTION, SEALING, 50 HZ	3.4 VA, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz 1.4 W, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
POWER CONSUMPTION, SEALING, 60 HZ	1.4 W, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	42 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	42 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	48 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	48 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	15 ms
SWITCHING TIME (AC OPERATED, MAKE	21 ms

	and auxiliary contacts, According to EN 61140
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	1 A, 250 V DC, (UL/CSA) 15 A, 600 V AC, (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)

Communication	
CONNECTION TO SMARTWIRE-DT	No

CONTACTS, CLOSING DELAY) - MAX	
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	9 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	18 ms

Contacts	
CODE NUMBER	40E
CONTROL CIRCUIT RELIABILITY	$\lambda$ < 5 x 10-7 (1 failure at 2,000,000 operations for U <sub>e</sub> = 24 V DC, Umin = 17 V, Imin = 5.4 mA)
NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	4
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	4

0 W
0 W
0.5 W
15.5 A
1.4 W
Meets the product standard's requirements.
Does not apply, since the entire switchgear needs to be evaluated.
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Resources	
CATALOGUES	eaton-product-overview- for-machinery-catalogue- ca08103003zen-en-us.pdf  Product Range Catalog Switching and protecting
	<u>motors</u>
CHARACTERISTIC CURVE	eaton-contactors-dila- relay-characteristic- curve.eps
	eaton-contactors- component-dila-relay- characteristic-curve.eps
DECLARATIONS OF	DA-DC-00004792.pdf
CONFORMITY	DA-DC-00004810.pdf
DRAWINGS	eaton-contactors-module- dilm-dimensions.eps
	eaton-contactors-frame- dilm-dimensions.eps
	eaton-contactors- mounting-dilm- dimensions-002.eps
	eaton-contactors- mounting-dilm- dimensions.eps
	eaton-contactors-dilm-3d-drawing-007.eps
ECAD MODEL	ETN.276325.edz
INSTALLATION INSTRUCTIONS	eaton-contactors-dila-dilm7-15-dilmp20-instruction-leaflet-il03407013z.pdf
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MCAD MODEL	DA-CS-dil_m7_15
	DA-CD-dil m7 15
SYSTEM OVERVIEW	eaton-contactors-dila- system-overview.eps
WIRING DIAGRAMS	eaton-contactors-contact- diler-relay-wiring- diagram.eps

Does not apply, since the entire switchgear needs to be evaluated.
ls the panel builder's responsibility.
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The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
Is the panel builder's responsibility. The specifications for the switchgear must be observed.
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The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



## **Eaton Corporation plc**

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