Eaton 276374

Eaton Moeller® series DILA Contactor relay, TVC100: 100 V 50 Hz/100-110 V 60 Hz, 3 N/O, 1 NC, Screw terminals, AC operation

PRODUCT NAME	Eaton Moeller® series DILA Control relay
CATALOG NUMBER	276374
PRODUCT LENGTH/DEPTH	75 mm
PRODUCT HEIGHT	68 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.237 kg
CERTIFICATIONS	UL CSA Class No.: 3211-03 CSA-C22.2 No. 14-05 UL 508 CSA UL Category Control No.: NKCR UL File No.: E29184 CE EN 60947-5-1 IEC/EN 60947-4-1 VDE 0660 CSA File No.: 012528 IEC/EN 60947



FEATURES	Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module	
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 ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.	
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be evaluated.	
10.2.6 MECHANICAL	Does not apply, since the entire switchgear needs to	
IMPACT	be evaluated.	
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Positive operation contacts
9000 Operations/h
3
Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
60 °C
-25 °C
40 °C
25 °C
80 °C
10.00
40 °C

0 W
0.5 W
0
1
0
3
0
1
3
100 V
100 V
No
6000 V AC
Screw terminals
Contactor relays
DILA relays
Finger and back-of-hand proof, Protection against direct contact when
actuated from front (EN 50274)

VOLTAGE TYPE OF OPERATING VOLTAGE	AC/DC
RATED SWITCH CURRENT	16 A
OPERATING VOLTAGE AT AC, 50 HZ - MIN	17 V
OPERATING VOLTAGE AT AC, 50 HZ - MAX	500 V
OPERATING VOLTAGE AT AC, 60 HZ - MIN	17 V
OPERATING VOLTAGE AT AC, 60 HZ - MAX	500 V
OPERATING VOLTAGE AT DC - MIN	24 VDC
OPERATING VOLTAGE AT DC - MAX	220 VDC
SCREWDRIVER SIZE	2, Terminal screw, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver
VOLTAGE TYPE	AC
CODE NUMBER	31E
DEGREE OF PROTECTION	IP20
OVERVOLTAGE CATEGORY	III
CONTROL CIRCUIT RELIABILITY	$\lambda < 5 x 10-7$ (1 failure at 2,000,000 operations for U _e = 24 V DC, Umin = 17 V, Imin = 5.4 mA)
CONNECTION TYPE (AUXILIARY CIRCUIT)	Screw connection
DUTY FACTOR	100 %
LIFESPAN, MECHANICAL	20,000,000 Operations (AC operated)
MOUNTING METHOD	DIN-rail/screw
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) 0.85 - 1.1 V AC x Uc (voltage tolerance - dual frequency coil 50/60 Hz)
POWER CONSUMPTION, PICK-UP, 50 HZ	24 VA, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
	frequency coil 50 Hz and Dual-frequency coil 50/60

	According to EN 61140 400 V AC, Between coil and auxiliary contacts, According to EN 61140
POWER CONSUMPTION, PICK-UP, 60 HZ	24 VA, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
SCREW SIZE	M3.5, Terminal screw
POWER CONSUMPTION, SEALING, 60 HZ	1.4 W, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
RATED OPERATIONAL CURRENT (IE)	1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in series) 6 A at 110 V, DC L/R ≤ 15 ms (with 3 contacts in series) 4 A at 24 V, DC L/R ≤ 50 ms (with 3 contacts in series) 6 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series) 5 A at 220 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) 10 A at 60 V, DC L/R ≤ 15 ms (with 2 contacts in series) 4 A at 60 V, DC L/R ≤ 50 ms (with 3 contacts in series) 2 A at 110 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) 3 A at 110 V, DC L/R ≤ 15 ms (with 1 contact in series) 3 A at 110 V, DC L/R ≤ 15 ms (with 1 contact in series) 16 A
POWER CONSUMPTION, SEALING, 50 HZ	 1.4 W, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz 3.4 VA, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
SWITCHING CAPACITY (AUXILIARY CONTACTS,	15 A, 600 V AC, (UL/CSA) 1 A, 250 V DC, (UL/CSA)

GENERAL USE)	
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	P300, DC operated (UL/CSA) A600, AC operated (UL/CSA)
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	110 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	100 V
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 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 OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	15.5 A
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	1.4 W
STRIPPING LENGTH (MAIN CABLE)	10 mm
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	21 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	15 ms
SWITCHING TIME (AC OPERATED, MAKE	18 ms

CONTACTS, OPENING DELAY) - MAX	
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	9 ms
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 2.5) mm², Screw terminals 2 x (0.75 - 2.5) mm², Screw terminals
SHOCK RESISTANCE	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 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
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14, Screw terminals
SHORT-CIRCUIT PROTECTION RATING WITHOUT WELDING	10 A gG/gL, 500 V, Max. Fuse, Contacts
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 4) mm², Screw terminals 2 x (0.75 - 2.5) mm², Screw terminals
TIGHTENING TORQUE	1.2 Nm, Screw terminals
ACTUATING VOLTAGE	TVC100: 100 V 50 Hz/100- 110 V 60 Hz

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

:



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