## Contactor relay, 24 V 50/60 Hz, 2 N/O, 2 NC, Screw terminals, AC operation



Part no. DILA-22(24V50/60HZ) 276403

Powering Business Worldwide"

General specifications	
Product name	Eaton Moeller® series DILA Control Relay
Part no.	DILA-22(24V50/60HZ)
EAN	4015082764036
Product Length/Depth	75 millimetre
Product height	68 millimetre
Product width	45 millimetre
Product weight	0.24 kilogram
Certifications	CSA Class No.: 3211-03 VDE 0660 CSA-C22.2 No. 14-05 IEC/EN 60947-4-1 EN 60947-5-1 UL 508 UL File No.: E29184 CE UL UL Category Control No.: NKCR CSA CSA File No.: 012528 IEC/EN 60947
Product Tradename	DILA
Product Type	Control Relay
Product Sub Type	None
Catalog Notes	Coil terminal markings according to EN 50005 Contact numbers according to EN 50011 Rated operational current: Switch-on and switch-off conditions based on DC-13, time constant as specified.
eatures & Functions	
Features	Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contamodule
Fitted with:	Positive operation contacts
General information	
Application	Contactor relays
Degree of protection	IP20
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
Lifespan, mechanical	20,000,000 Operations (AC operated)
Mounting method	DIN-rail/screw
Operating frequency	9000 Operations/h
Overvoltage category	III
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)	8000 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
	40 °C
Ambient storage temperature - min	
Ambient storage temperature - max	80 °C

<sup>2</sup> , Screw terminals <sup>2</sup> , Screw terminals <sup>2</sup> , Screw terminals  2, Screw terminals  minals  rew  , Terminal screw, Standard screwdriver , Pozidriv screwdriver  rminals  (R ≤ 15 ms (with 3 contacts in series) (R ≤ 50 ms (with 3 contacts in series) (R ≤ 50 ms (with 3 contacts in series) (R ≤ 50 ms (with 3 contacts in series) (R ≤ 15 ms (with 3 contacts in series) (R ≤ 15 ms (with 1 contact in series) (R ≤ 15 ms (with 1 contact in series) (R ≤ 15 ms (with 1 contact in series) (R ≤ 15 ms (with 1 contact in series) (R ≤ 15 ms (with 1 contact in series) (R ≤ 15 ms (with 3 contacts in series) (R ≤ 15 ms (with 1 contact in series) (R ≤ 15 ms (with 3 contacts in series) (R ≤ 15 ms (with 1 contact in series)
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Screw terminals  minals  rew  Terminal screw, Standard screwdriver  Topoldriv screwdriver  Tominals  R   15 ms (with 3 contacts in series)  R   50 ms (with 3 contacts in series)  R   51 ms (with 1 contact in series)  R   15 ms (with 1 contact in series)  16   17   18  18  19  19  10  10  10  10  10  10  10  10  10  10
Terminal screw, Standard screwdriver  The pozidriv screwdriver  Trainals  TR ≤ 15 ms (with 3 contacts in series)  R ≤ 50 ms (with 3 contacts in series)  R ≤ 50 ms (with 3 contacts in series)  R ≤ 50 ms (with 3 contacts in series)  R ≤ 15 ms (with 3 contacts in series)  R ≤ 15 ms (with 1 contact in series)  R ≤ 15 ms (with 1 contact in series)  R ≤ 15 ms (with 2 contacts in series)  R ≤ 15 ms (with 2 contact in series)  R ≤ 15 ms (with 1 contact in series)  R ≤ 15 ms (with 1 contact in series)  R ≤ 15 ms (with 2 contacts in series)  R ≤ 50 ms (with 3 contacts in series)
Terminal screw, Standard screwdriver  Trainals   IR ≤ 15 ms (with 3 contacts in series)  R ≤ 50 ms (with 3 contacts in series)  R ≤ 50 ms (with 3 contacts in series)  R ≤ 50 ms (with 3 contacts in series)  R ≤ 50 ms (with 3 contacts in series)  R ≤ 15 ms (with 3 contacts in series)  R ≤ 15 ms (with 1 contact in series)  R ≤ 15 ms (with 1 contact in series)  R ≤ 15 ms (with 1 contact in series)  R ≤ 15 ms (with 1 contact in series)  R ≤ 15 ms (with 1 contact in series)  R ≤ 50 ms (with 3 contacts in series)
Terminal screw, Standard screwdriver  Trainals   IR ≤ 15 ms (with 3 contacts in series)  R ≤ 50 ms (with 3 contacts in series)  IR ≤ 50 ms (with 3 contacts in series)  IR ≤ 50 ms (with 3 contacts in series)  IR ≤ 50 ms (with 3 contacts in series)  IR ≤ 15 ms (with 3 contacts in series)  IR ≤ 15 ms (with 1 contact in series)  IR ≤ 15 ms (with 1 contact in series)  IR ≤ 15 ms (with 1 contact in series)  IR ≤ 15 ms (with 1 contact in series)  R ≤ 15 ms (with 1 contact in series)  R ≤ 15 ms (with 1 contact in series)  R ≤ 50 ms (with 3 contacts in series)
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Max. Fuse, Contacts
n coil and auxiliary contacts, According to EN 61140 in auxiliary contacts, According to EN 61140
/CSA) L/CSA)
d (UL/CSA) d (UL/CSA)
c (voltage tolerance - dual frequency coil 50/60 Hz)
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Control circuit reliability	$<$ 2 $\lambda,<$ 1 failure at 100,000,000 Operations (at U# = 24 V DC, Umin = 17 V, Imin = 5.4 mA)
Number of auxiliary contacts (change-over contacts)	0
Number of contacts (normally closed contacts)	2
Number of contacts (normally open contacts)	2
Number of auxiliary contacts (normally closed contacts)	2
Number of auxiliary contacts (normally open contacts)	2
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0.5 W
Rated operational current for specified heat dissipation (In)	15.5 A
Static heat dissipation, non-current-dependent Pvs	1.4 W
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 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	Is the panel builder's responsibility.
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.

## **Technical data ETIM 8.0**

Low-voltage industrial components (EG000017) / Contactor relay (EC000196) Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Contactor relay (ecl@ss10.0.1-27-37-10-01 [AAB716014]) ٧ Rated control supply voltage Us at AC 50HZ 24 - 24 Rated control supply voltage Us at AC 60HZ ٧ 24 - 24 Rated control supply voltage Us at DC ٧ 0 - 0 Voltage type for actuating AC Α 4 Rated operation current le, 400 V Connection type auxiliary circuit Screw connection DIN-rail/screw Mounting method No Interface 2 Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact 2 Number of auxiliary contacts as normally closed contact, delayed switching 0 Number of auxiliary contacts as normally open contact, leading 0 Number of auxiliary contacts as change-over contact 0 With LED indication No Suitable for manual operation No