Contactor relay, 24 V 50 Hz, 3 N/O, 1 NC, Screw terminals, AC operation



Powering Business Worldwide

Part no. DILA-31(24V50HZ)

276351

EL Number 4130204

(Norway)

Eaton Moeller® series DILA Control Relay
DILA-31(24V50HZ)
4015082763510
75 millimetre
68 millimetre
45 millimetre
0.24 kilogram
CE Marked CSA Std. C22.2 No. 14-05 IEC 60947-4-1 UL 508 EN 60947-4-1 VDE CSA-C22.2 No. 14-05 UL CSA File No.: 012528 EN 60947-5-1 CSA CSA Class No.: 3211-03 UL Category Control No.: NKCR VDE 0660 IEC/EN 60947-4-1 UL File No.: E29184 CE
IEC/EN 60947
DILA
Control Relay
None
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.
Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module
Positive operation contacts
Contactor relays
IP20
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
20,000,000 Operations (AC operated)
Screw
9000 Operations/h
III
3
DILA relays
Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
6000 V AC
AC
-25 °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, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Ferminal capacities	
Terminal capacity (flexible with ferrule)	$2 \times (0.75 - 2.5)$ mm ² , Screw terminals $1 \times (0.75 - 2.5)$ mm ² , Screw terminals
Terminal capacity (solid)	$1 \times (0.75 - 4) \text{ mm}^2$, Screw terminals $2 \times (0.75 - 2.5) \text{ mm}^2$, 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
Tightening torque	1.2 Nm, Screw terminals
lectrical rating	
Conventional thermal current ith at 60°C (3-pole, open)	16 A
Rated operational current (Ie)	6 A at 60 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) 5 A at 220 V, DC L/R ≤ 15 ms (with 3 contacts in series) 10 A at 60 V, DC L/R ≤ 15 ms (with 2 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) 4 A at 60 V, DC L/R ≤ 50 ms (with 3 contacts in series) 3 A at 110 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) 4 A at 24 V, DC L/R ≤ 50 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 ≤ 50 ms (with 3 contacts in series) 1 A at 220 V, DC L/R ≤ 50 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 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)
lagnet system	100 %
Duty factor Disk was a base	100 %
Power consumption, pick-up, 50 Hz	0.8 - 1.1 V AC x Uc (voltage tolerance - single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz) 24 VA, AC, Single-frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
Power consumption, pick-up, 30 Hz	24 VA, AC, Single-frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
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
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	24 V
Rated control supply voltage (Us) at AC, 50 Hz - max	24 V
Rated control supply voltage (Us) at AC, 60 Hz - min	0 V
Rated control supply voltage (Us) at AC, 60 Hz - max	0 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 contacts, closing delay) - max	21 ms
Switching time (AC operated, make contacts, opening delay) - min	9 ms
Switching time (AC operated, make contacts, opening delay) - max	18 ms
Communication	

Code number Control circuit reliability Control circuit reliability Rumber of auxiliary contacts (change-ower contacts) Number of auxiliary contacts (change-ower contacts) Number of contacts (normally closed contacts) Number of contacts (normally copen contacts) Number of contacts (normally copen contacts) Number of auxiliary contacts (normally contacts) Number of auxiliary contacts (no	Connection	Screw terminals
Code number Control circuit reliability Act 2 A. c1 failure at 100,000,000 Operations (at UF = 24 V DC, Umin = 17 V, Imin = 5 m V DC, Umin = 17 V, Imin = 17 V, Imin = 5 m V DC, Umin = 17 V, Imin = 17	Connection to SmartWire-DT	No
Corrol circuit reliability 2 \(\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Contacts	
mail mail mail mail mail mail mail mail	Code number	31E
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Number of contacts (normally open contacts) Number of auxiliary contacts (normally closed contacts) Number of auxiliary contacts (normally closed contacts) 20esign verification Equipment hast dissipation, current-dependent Pvid Heat dissipation capacity Pdiss OW Heat dissipation per pole, current-dependent Pvid Bated operational current for specified heat dissipation (In) Statis heat dissipation, non-current-dependent Pvid Rated operational current for specified heat dissipation (In) 15.5 A Statis heat dissipation non-current-dependent Pvid Rated operational current for specified heat dissipation (In) 10.2.2 Corrosion resistance Meets the product standard's requirements. 10.2.3.1 Verification of thermal stability of onclosures 10.2.3.2.1 Verification of thermal stability of onclosures 10.2.2.3 Resist of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting Des not apply, since the entire switchgear needs to be evaluated. 10.2.5 Lifting Des not apply, since the entire switchgear needs to be evaluated. 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances Meets the product standard's requirements. 10.5 Protection against electric shock 10.6 Clearances and creepage distances Meets the product standard's requirements. 10.7 Internal electric al circuits and connections Internal electric al	Number of auxiliary contacts (change-over contacts)	0
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10.27 Inscriptions 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Is the panel builder's responsibility. Is the panel builder's responsibility. The specifications for the switchgear must observed. Is the panel builder's responsibility. The specifications for the switchgear must observed. In the device meets the requirements, provided the information in the instruction	10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
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10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Short-circuits and connections 11.15 Is the panel builder's responsibility. 12.16 Is the panel builder's responsibility. 13.17 Internal electrical circuits and connections 14.18 the panel builder's responsibility. 15.19 Is the panel builder is responsibility. 16.19 Is the panel builder's responsibility. The specifications for the switchgear must observed. 17.19 Is the panel builder's responsibility. The specifications for the switchgear must observed. 18.19 Is the panel builder's responsibility. The specifications for the switchgear must observed. 19.10 Is the panel builder's responsibility. The specifications for the switchgear must observed. 19.10 Internal electrical circuits and conductors 19.11 Internal electrical circuits and conductors 19.12 Is the panel builder's responsibility. 19.13 Internal electrical circuits and conductors 19.14 Internal electrical circuits and conductors 19.15 Interpanel builder's responsibility. 19.16 Internal panel builder's responsibility. 19.17 Internal panel builder's responsibility. 19.18 Interpanel builder's responsibility. 19.19 Internal panel builder's responsibility. 19.10 Internal panel builder's responsibility. 19.10 Internal panel builder's responsibility. 19.10 Internal panel builder's responsibility. 19.11 Internal panel builder's responsibility. 19.12 Internal panel builder's responsibility. 19.13 Internal panel builder's responsibility. 19.14 Internal panel builder's responsibility. 19.15 Internal panel builder's responsibility. 19.16 Internal panel builder's responsibility. 19.17 Internal panel builder's responsibility. 19.18 Internal panel builder's responsibility. 19.19 Internal panel buil	10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
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10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function Is the panel builder's responsibility. The panel builder is responsibility is responsibility. The specifications for the switchgear must observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Is the panel builder's responsibility. The specifications for the switchgear must observed. 10.15 the panel builder's responsibility. The specifications for the switchgear must observed. 10.15 The device meets the requirements, provided the information in the instruction	10.9.2 Power-frequency electric strength	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 observed. 10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
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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])					
Rated control supply voltage Us at AC 50HZ	V	V 24 - 24			
Rated control supply voltage Us at AC 60HZ	V	V 0 - 0			
Rated control supply voltage Us at DC	V	V 0 - 0			
Voltage type for actuating		AC			
Rated operation current le, 400 V	А	A 4			
Connection type auxiliary circuit		Screw connection			
Mounting method		Screw			
Interface		No			
Number of auxiliary contacts as normally closed contact		2			
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