DATASHEET - DILA-22(230V50HZ,240V60HZ)



Contactor relay, 230 V 50 Hz, 240 V 60 Hz, 2 N/O, 2 NC, Screw terminals, AC operation $\,$



Part no. DILA-22(230V50HZ,240V60HZ)

276399

EL Number (Norway)

4130208

Eaton Moeller® series DILA Control relay
DILA-22(230V50HZ,240V60HZ)
4015082763992
75 millimetre
68 millimetre
45 millimetre
0.24 kilogram
UL Category Control No.: NKCR CSA Class No.: 3211-03 EN 60947-5-1 UL UL 508 CSA UL File No.: E29184 CSA File No.: 012528 IEC/EN 60947-4-1 CSA-C22.2 No. 14-05 VDE 0660 IEC/EN 60947 CE
DILA
Control relay
None
Anschlussbezeichnungen der Spule nach EN 50005 Kontaktnummern gemäß EN 50011 Bemessungsbetriebsstrom: An- und Ausschaltbedingungen basierend auf DC-13, Zeitkonstante wie angegeben.
Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module
Positive operation contacts
Contactor relays
IP20
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
20,000,000 Operations (AC operated)
DIN-rail/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
60 °C
25 °C
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
Terminal 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	$0.8 \times 5.5/1 \times 6$ mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
Electrical rating	40.4
Conventional thermal current ith at 60°C (3-pole, open) Rated operational current (le)	16 A 2 A at 110 V, DC L/R \leq 50 ms (with 3 contacts in series) 4 A at 24 V, DC L/R \leq 50 ms (with 3 contacts in series) 6 A at 60 V, DC L/R \leq 15 ms (with 1 contact in series) 3 A at 110 V, DC L/R \leq 15 ms (with 1 contact in series) 6 A at 110 V, DC L/R \leq 15 ms (with 3 contacts in series) 4 A at 60 V, DC L/R \leq 50 ms (with 3 contacts in series) 1 A at 220 V, DC L/R \leq 515 ms (with 1 contact in series) 5 A at 220 V, DC L/R \leq 15 ms (with 3 contacts in series) 1 A at 220 V, DC L/R \leq 50 ms (with 3 contacts in series) 10 A at 24 V, DC L/R \leq 15 ms (with 1 contact in series) 10 A at 60 V, DC L/R \leq 15 ms (with 1 contact 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)	P300, DC operated (UL/CSA) A600, AC operated (UL/CSA)
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	230 V
Rated control supply voltage (Us) at AC, 50 Hz - max	230 V
Rated control supply voltage (Us) at AC, 60 Hz - min	240 V
Rated control supply voltage (Us) at AC, 60 Hz - max	240 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	
Connection to SmartWire-DT	No
Contacts	
Code number	22E

Control circuit reliability	λ < 5 x 10-7 (1 failure at 2,000,000 operations for 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 9.0

recillical data Ettivi 3.0					
Low-voltage industrial components (EG000017) / Contactor relay (EC000196)					
Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Contactor relay (ecl@ss13-27-37-10-01 [AAB716019])					
Rated control supply voltage AC 50 Hz		V	230 - 230		
Rated control supply voltage AC 60 Hz		V	240 - 240		
Rated control supply voltage DC		V	0 - 0		
Voltage type for actuating			AC		
Rated operation current		Α	16		
Rated operation current le, 400 V		Α	4		
Mounting method			DIN-rail/screw		
With LED indication			No		
Suitable for manual operation			No		
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		

Operating voltage AC 50 Hz	V	17 - 500
Operating voltage AC 60 Hz	V	17 - 500
Operating voltage DC	V	24 - 220
Voltage type (operating voltage)		AC/DC
Rated switch current	Α	16
Connection type auxiliary circuit		Screw connection
Width	mm	45
Height	mm	68
Depth	mm	75