

## Contactor relay, 230 V 50/60 Hz, 4 N/O, Push in terminals, AC operation

Part no. DILA-40(230V50/60HZ)-PI  
199636

Powering Business Worldwide™

Product name	Eaton Moeller® series DILA Control Relay
Part no.	DILA-40(230V50/60HZ)-PI
EAN	4015081983377
Product Length/Depth	75 millimetre
Product height	68 millimetre
Product width	45 millimetre
Product weight	0.227 kilogram
Certifications	VDE 0660 IEC/EN 60947 EN 60947-5-1
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.
Features	Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module
Fitted with:	Positive operation contacts
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
Oversupply 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)	6000 V AC
Voltage type	AC
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, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Terminal capacity (flexible with ferrule)	2 x (0.5 - 1.5) mm² 1 x (0.5 - 1.5) mm², Control circuit cables
Terminal capacity (solid)	1 x (0.5 - 0.25) mm² 2 x (0.5 - 2.5) mm², Control circuit cables
Terminal capacity (solid/stranded AWG)	20 - 14

Stripping length (main cable)	10 mm	
Screwdriver size	3.0 x 0.5 mm, Terminal screw	
Rated operational current (Ie)	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) 4 A at 24 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) 2 A at 110 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) 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) 4 A at 60 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) 16 A	
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 coil and auxiliary contacts, According to EN 61140 400 V AC, Between auxiliary contacts, According to EN 61140	
Duty factor	100 %	
Pick-up voltage	0.85 - 1.1 V AC x Uc 0.8 - 1.1 V AC x Uc (voltage tolerance - dual frequency coil 50/60 Hz)	
Power consumption, pick-up, 60 Hz	25 VA, AC, Dual-frequency coil at 60 Hz 27 VA, AC, Dual-frequency coil at 60 Hz	
Power consumption, sealing, 50 Hz	1.4 W, Dual-frequency coil in a cold state and 1.0 x Us 3.3 VA, Dual-frequency coil in a cold state and 1.0 x Us 4.2 VA, Dual-frequency coil in a cold state and 1.0 x Us	
Power consumption, sealing, 60 Hz	1.4 W, Dual-frequency coil in a cold state and 1.0 x Us 4.2 VA, Dual-frequency coil in a cold state and 1.0 x Us 3.3 VA, Dual-frequency coil in a cold state and 1.0 x Us	
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	230 V	
Rated control supply voltage (Us) at AC, 60 Hz - max	230 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	
Connection	Push in terminals	
Connection to SmartWire-DT	No	
Code number	40E	
Control circuit reliability	< 2 λ, < 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 open contacts)	4	
Number of auxiliary contacts (normally closed contacts)	0	
Number of auxiliary contacts (normally open contacts)	4	

## 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	230 - 230
Rated control supply voltage Us at AC 60Hz	V	230 - 230
Rated control supply voltage Us at DC	V	0 - 0

Voltage type for actuating		AC
Rated operation current $I_e$ , 400 V	A	4
Connection type auxiliary circuit		Spring clamp connection
Mounting method		DIN-rail/screw
Interface		No
Number of auxiliary contacts as normally closed contact		0
Number of auxiliary contacts as normally open contact		4
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