DATASHEET - DILER-22-G(220VDC)



Contactor relay, 220 V DC, N/O = Normally open: 2 N/O, N/C = Normally closed: 2 NC, Screw terminals, DC operation



Part no.

DILER-22-G(220VDC) 010091

General specifications	
Product name	Eaton Moeller® series DILER Control relay
Part no.	DILER-22-G(220VDC)
EAN	4015080100911
Product Length/Depth	54 millimetre
Product height	58 millimetre
Product width	45 millimetre
Product weight	
•	0.206 kilogram
Certifications	CSA-C22.2 No. 14-05 UL VDE 0660 EN 60947-5-1 CSA File No.: 012528 CE UL Category Control No.: NKCR UL File No.: E29184 CSA CSA Class No.: 3211-03 IEC/EN 60947 UL 508 IEC/EN 60947-4-1
Product Tradename	DILER
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 & Functions	
Features	Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module
Fitted with:	Interlocked opposing contacts
General information	
Application	Contactor relays
Degree of protection	IP20
Lifespan, mechanical	20,000,000 Operations (DC operated)
Mounting method	DIN-rail/screw
Mounting position	As required (except vertical with terminals A1/A2 at the bottom)
Operating frequency	9000 Operations/h
Overvoltage category	
Pollution degree	3
Product category	DILER Mini-contactors
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
Shock resistance	8 g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 10 g, N/O auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
Voltage type	DC
Climatic environmental conditions	
chinalic environmental conditions	
Ambient operating temperature - min	-25 °C
	-25 °C 50 °C
Ambient operating temperature - min	
Ambient operating temperature - min Ambient operating temperature - max	50 °C

	Damp heat, cyclic, to IEC 60068-2-30
Terminal capacities	
Terminal capacity (flexible with ferrule)	2 x (0.75 - 1.5) mm ² 1 x (0.75 - 1.5) mm ²
Terminal capacity (solid)	1 x (0.75 - 2.5) mm ² 2 x (0.75 - 2.5) mm ²
Terminal capacity (solid/stranded AWG)	18 - 14 2 x (18 - 14) 1 x (18 - 14)
Stripping length (main cable)	8 mm
Screw size	M3.5, Terminal screw
Screwdriver size	2, Terminal screw, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver
Tightening torque	1.2 Nm, Screw terminals
Electrical rating	
Rated operational voltage (Ue) at AC - max	600 V
Rated insulation voltage (Ui)	690 V
Rated operational current (le)	2.5 A at 60 V, DC L/R \le 15 ms (with 2 contacts in series) 0.5 A at 220 V, DC L/R \le 15 ms (with 3 contacts in series) 2.5 A at 24 V, DC L/R \le 15 ms (with 1 contact in series) 1.5 A at 110 V, DC L/R \le 15 ms (with 3 contacts in series) 10 A
Rated operational current (Ie) at AC-15, 220 V, 230 V, 240 V	6 A
Rated operational current (Ie) at AC-15, 380 V, 400 V, 415 V	3 A
Rated operational current (Ie) at AC-15, 500 V	1.5 A
Safe isolation	300 V AC, Between coil and auxiliary contacts, According to EN 61140 300 V AC, Between auxiliary contacts, According to EN 61140
Short-circuit rating	
Short-circuit protection rating	10 A fast, 500V, Maximum fuse, Short-circuit rating without welding, Contacts
Short-circuit protection rating without welding	6 A gG/gL, 500 V, Max. Fuse, Contacts
Switching capacity	
Switching capacity (auxiliary contacts, general use)	0.5 A, 250 V DC, (UL/CSA) 10 A, 600 V AC, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)
Magnet system	
Duty factor	100 %
Pick-up voltage	0.85 - 1.3 V DC x Uc 0.7 - 1.3 V DC x Uc (at 24 V: without auxiliary contact module and at ambient air temperature + 40 °C)
Power consumption (pick-up) at DC	2.3 W
Power consumption (sealing) at DC	2.3 W
Rated control supply voltage (Us) at AC, 50 Hz - min	0 V
Rated control supply voltage (Us) at AC, 50 Hz - max	0 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	220 V
Voltage tolerance	Smoothed DC, three-phase bridge rectifiers or smoothed double-wave rectification
Rated control supply voltage (Us) at DC - max	220 V
Switching time (DC operated, make contacts, closing delay) - min	26 ms
Switching time (DC operated, make contacts, closing delay) - max	35 ms
Switching time (DC operated, make contacts, opening delay) - min	15 ms
Switching time (DC operated, make contacts, opening delay) - max	25 ms
Switching time (DC operated, N/O, with auxiliary contact module, closing delay)	70 ms
Contacts	
Code number	22E
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

10.11 Short-circuit rating Image: Compatibility of the sector of the	Number of auxiliary contacts (normally open contacts)	2
Heat dissipation capacity Pdiss 0W Heat dissipation prople, current-dependent Pvid 04 W Rated operational current for specified heat dissipation (In) 6 A Static heat dissipation, non-current-dependent Pvs 23 W 10.2.2 Corrosion resistance Meets the product standard's requirements. 10.2.3.1 Verification of themal 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. 10.2.3.2 Resist of insul. mat. to abnormal heat/fire by internal elect. effects Meets the product standard's requirements. 10.2.3 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 Does not apply, since the entire switchgear needs to be evaluated. 10.2.5 Unscriptions Does not apply, since the entire switchgear needs to be evaluated. 10.4 Clearances and crepage 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. 10.6 Incorporation of switching devices sthe panel builder's responsibility	Design verification	
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10.13 Mechanical function The device meets the requirements, provided the information in the instruction	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.
ieanet (iL) is 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

Low-voltage industrial components (EG000017) / Contactor relay (EC000196)	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		0 - 0			
Rated control supply voltage AC 60 Hz	V		0 - 0			
Rated control supply voltage DC	V		220 - 220			
Voltage type for actuating			DC			
Rated operation current	А		10			
Rated operation current le, 400 V	А		3			
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	А		10			
Connection type auxiliary circuit			Screw connection			

Width	mm	45
Height	mm	58
Depth	mm	54