Ambient operating temperature - min Ambient operating temperature - max

Ambient operating temperature (enclosed) - min

Ambient operating temperature (enclosed) - max

Contactor relay, 24 V DC, N/O = Normally open: 2 N/O, N/C = Normally closed: 2 NC, Screw terminals, DC operation



DILER-22-G(24VDC) Part no.

010042

EL Number (Norway)	4130354	
General specifications		
Product name		Eaton Moeller® series DILER Control Relay
Part no.		DILER-22-G(24VDC)
EAN		4015080100423
Product Length/Depth		54 millimetre
Product height		58 millimetre
Product width		45 millimetre
Product weight		0.206 kilogram
Certifications		CSA CSA File No.: 012528 CSA Class No.: 3211-03 EN 60947-5-1 IEC/EN 60947-4-1 IEC/EN 60947 UL File No.: E29184 UL Category Control No.: NKCR VDE 0660 CE UL 508 CSA-C22.2 No. 14-05 UL
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 conta 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		III
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		10 g, N/O auxiliary contact, Basic unit with auxiliary contact module, Mechanica according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 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
Voltage type		DC
Climatic environmental conditions		

-25 °C

50 °C -25 °C

40 °C

Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Terminal capacities	
Terminal capacity (flexible with ferrule)	1 x (0.75 - 1.5) mm ² 2 x (0.75 - 1.5) mm ²
Terminal capacity (solid)	1 x (0.75 - 2.5) mm ²
Terminal capacity (solid/stranded AWG)	2 x (0.75 - 2.5) mm² 18 - 14
ionima supusit, (consportantes)	1 x (18 - 14) 2 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 24 V, DC L/R \leq 15 ms (with 1 contact in series) 2.5 A at 60 V, DC L/R \leq 15 ms (with 2 contacts in series) 0.5 A at 220 V, DC L/R \leq 15 ms (with 3 contacts in series) 1.5 A at 110 V, DC L/R \leq 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) P300, DC operated (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	A600, AC operated (UL/CSA)
Magnet system	
Duty factor	100 %
Pick-up voltage	0.7 - 1.3 V DC x Uc (at 24 V: without auxiliary contact module and at ambient air temperature + 40 °C) 0.85 - 1.3 V DC x Uc
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
	0 V
Rated control supply voltage (Us) at AC, 50 Hz - max	
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	24 V
Voltage tolerance	Smoothed DC, three-phase bridge rectifiers or smoothed double-wave rectification
Rated control supply voltage (Us) at DC - max	24 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
Contacts	22E < 2 λ, < 1 failure at 100,000,000 Operations (at U# = 24 V DC, Umin = 17 V, Imin = 5.4

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10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 1s the panel builder's responsibility. 10.8 Connections for external conductors 1s the panel builder's responsibility. 10.9.2 Power-frequency electric strength 1s the panel builder's responsibility. 1s the panel builder's responsibility. The specifications for the switchgear must be observed. 1s the panel builder's responsibility. The specifications for the switchgear must be observed. 1s the panel builder's responsibility. The specifications for the switchgear must be observed. 1s the panel builder's responsibility. The specifications for the switchgear must be observed. 1s the panel builder's responsibility. The specifications for the switchgear must be observed.	10.4 Clearances and creepage distances	Meets the product standard's requirements.
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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 Is the panel builder's responsibility. Is the panel builder is responsibility. The panel builder is responsibility is responsibility. Is the panel builder is responsibility. Is the panel builder is responsibility. The specifications for the switchgear must be observed. The panel builder's responsibility. The specifications for the switchgear must be observed. The device meets the requirements, provided the information in the instruction	10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
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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	10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
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	10.12 Electromagnetic compatibility	
	10.13 Mechanical function	

Technical data ETIM 9.0

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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	24 - 24			
Voltage type for actuating			DC			
Rated operation current		Α	10			
Rated operation current le, 400 V		Α	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	Α	10
Connection type auxiliary circuit		Screw connection
Width	mm	45
Height	mm	58
Depth	mm	54