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



Contactor relay, 230 V 50 Hz, 240 V 60 Hz, N/O = Normally open: 2 N/O, N/C = Normally closed: 2 NC, Screw terminals, AC operation



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

051777

EL Number

4130361

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Eaton Moeller® series DILER Control relay
DILER-22(230V50HZ,240V60HZ)
4015080517771
52 millimetre
58 millimetre
45 millimetre
0.17 kilogram
CSA-C22.2 No. 14-05 UL 508 CE EN 60947-5-1 CSA File No.: 012528 IEC/EN 60947-4-1 VDE 0660 CSA Class No.: 3211-03 UL File No.: E29184 IEC/EN 60947 UL Category Control No.: NKCR CSA UL
DILER
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
Interlocked opposing contacts
Contactor relays
IP20
10,000,000 Operations (AC operated)
DIN-rail/screw
As required (except vertical with terminals A1/A2 at the bottom)
9000 Operations/h
III
3
DILER Mini-contactors
Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
6000 V AC
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 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
AC
-25 °C
-25 °C 50 °C 25 °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
ionimal superity (noxide with tortals)	2 x (0.75 - 1.5) mm ²
Terminal capacity (solid)	1 x (0.75 - 2.5) mm² 2 x (0.75 - 2.5) mm²
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
Electrical rating	
Rated operational voltage (Ue) at AC - max	600 V
Rated insulation voltage (Ui)	690 V
Rated operational current (le)	0.5 A at 220 V, DC L/R \leq 15 ms (with 3 contacts in series) 2.5 A at 24 V, DC L/R \leq 15 ms (with 1 contact in series) 1.5 A at 110 V, DC L/R \leq 15 ms (with 3 contacts in series) 2.5 A at 60 V, DC L/R \leq 15 ms (with 2 contacts in series) 10 A
Rated operational current (le) 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 (le) 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)	10 A, 600 V AC, (UL/CSA) 0.5 A, 250 V DC, (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	0.8 - 1.1 V AC x Uc (voltage tolerance - single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz) 0.85 - 1.1 V AC x Uc (voltage tolerance - dual frequency coil 50/60 Hz)
Power consumption, pick-up, 50 Hz	25 VA, AC, Single-frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
Power consumption, pick-up, 60 Hz	25 VA, AC, Single-frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
Power consumption, sealing, 50 Hz	1.3 W, AC, Single-frequency coil 50 Hz and Dual-frequency coil 50/60 Hz 4.6 VA, AC, Single-frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
Power consumption, sealing, 60 Hz	1.3 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	14 ms
Switching time (AC operated, make contacts, closing delay) - max	21 ms
Switching time (AC operated, make contacts, opening delay) - min	8 ms
Switching time (AC operated, make contacts, opening delay) - max	18 ms
Switching time (AC operated, N/O, with auxiliary contact module, closing delay)	45 ms
Contacts	
Code number	22E
Control circuit reliability	$<$ 2 $\lambda_{r}<$ 1 failure at 100,000,000 Operations (at U# = 24 V DC, Umin = 17 V, Imin = 5. mA)
Number of auxiliary contacts (change-over contacts)	0

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	0.4 W
Rated operational current for specified heat dissipation (In)	6 A
Static heat dissipation, non-current-dependent Pvs	1.8 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

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	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	А	10				

Connection type auxiliary circuit		Screw connection
Width	mm	45
Height	mm	58
Depth	mm	52