



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



17.5 mm - 1 Relay 5A EMAR9 Part number 88829902



- Multifunction or mono-function
- Multi-range (7 ranges)
- Multi-voltage or single voltage
- Screw terminals
- LED status indicator (1 voltage present LED, 1 timer ON LED)
- Option of supplying a load in parallel (EMER / EMYR)

Part numbers

	Type	Packaging	Functions	Timing	Output	Nominal rating	Supply voltage
88829902	EMAR9	Kit of 60 units	A	0,1 →20 h	1 changeover relay	5 A NO	24 VAC/DC

Specifications

Timing

Timing ranges (7 ranges)	0.1 s →1 s / 1 →10 s / 6 →60 s / 1 →10 min / 6 →60 min / 1 →10 h / 2 →20 h
Repetition accuracy with constant parameters	± 0,5 %
Drift Temperature	± 0,05 %/ °C
Drift Voltage	± 0,2 %/V
Display accuracy according to IEC/EN 61812-1	± 10 % / 25 °C
Minimum pulse time	30 ms
Maximum reset time by denegerisation	100 ms

Supply

Multi-voltage power supply	EMAR2 : 110-120 VAC EMAR7 : 240 VAC EMAR9 : 24 VAC/DC EMER8/EMYR8 : 12 →240 VDC / 24 →240 VAC
Operating range	EMAR2 : 93 to 132VAC EMAR7 : -15 % + 10 % EMAR9 : 24 VAC - 15 % + 10 % / 24 VDC - 15 % + 20 % EMER8/EMYR8 : -15 % + 10 %
Frequency (Hz)	50 / 60 Hz ± 5 %
Max. absorbed power	EMAR2 : approx 3,2 VA 110 VAC EMAR7 : approx. 3,2 VA 230 VAC EMAR9 : approx. 1,2 VA (0,6 W) / 24 VAC (DC) EMER8/EMYR8 : approx. 3,2 VA (1,5 W) / 230 VAC (DC) Approx. 1,2 VA (0,6 W) / 24 VAC (DC)
Immunity from micro power cuts : typical	> 10 ms

Output specification

Changeover relay	1 NO : 1250 VA / 150 W 1 NC : 750 VA / 90 W
Maximum breaking current	NO : 5 A 250 VAC / 5 A 30 VDC resistive NC : 3 A 250 VAC / 3 A 30 VDC resistive
Minimum breaking current	10 mA / 12 VDC
Voltage breaking capacity	277 VAC / 30 VDC
Electrical life (operations)	10 ⁵ NO cycles 7 x 10 ⁴ cycles
Mechanical life (operations cycles)	5 x 10 ⁶

General characteristics

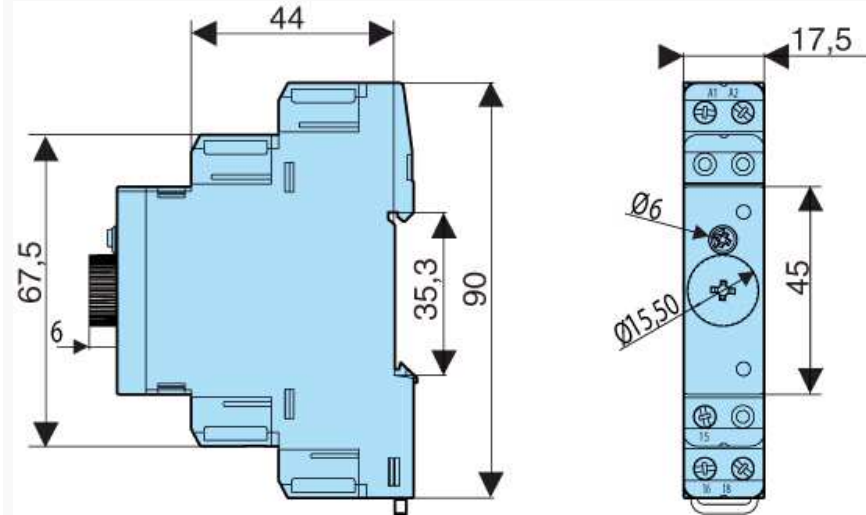
LED display	Green : voltage present Yellow : timer R ON
Fixing : Symmetrical DIN rail	35 mm
Protection (IEC/EN 60529)	Casing : IP40 Connection terminals : IP20
Terminal capacity Multi-wire with ferrule	1 x 0,5 →4 mm ² (AWG 20 →AWG11) 2 x 0,5 →2,5 mm ² (AWG 20 →AWG14)
Terminal capacity Single-wire without ferrule	1 x 0,5 →2,5 mm ² (AWG 20 →AWG14) 2 x 0,5 →1,5 mm ² (AWG 20 →AWG16)
Stripping length (mm)	5 mm
Max. tightening torques IEC/EN 60947-1	0,6 →0,8 Nm
Temperature limits use (°C)	-20 °C →+60 °C
Temperature limits stored (°C)	-40 °C →70 °C

Relative humidity no condensation acc. to IEC/EN 60068-2-30	93 %
Vibration resistance according to IEC/EN 60068-2-6	10 →55 Hz, A = 0.35 mm peak to peak 10 x cycles, 1 octave/min
Weight (g)	60

Standard	
Certifications	CE - cUL
Conforming to standards (directives BT and CEM)	IEC/EN 61812-1 IEC/EN 61000-6-2 IEC/EN 61000-6-3 IEC/EN 61000-6-4
Conformity with environmental directives	2002/95/CE : RoHS 1907/2006 : Reach
Immunity to electrostatic discharges acc. IEC/EN 61000-4-2	Level III air ± 8 kV / contact ± 4 kV
Immunity to radiated, radio-frequency, electromagnetic field acc. IEC/EN 61000-4-3	Level III 10 V/m (80 M Hz →1 G Hz) 80 % AM (1 K Hz) 3 V/m (1.4 →2 G Hz) 80 % AM (1 K Hz) 1 V/m (2 →2.7 G Hz) 80 % AM (1 K Hz)
Immunity to rapid transient bursts acc. to IEC/EN 61000-4-4	Level III Direct ± 2 kV (power supply) Coupling ± 1 kV (I/O)
Immunity to shock waves on power supply acc. to IEC/EN 61000-4-5	Level III Power supply/earth ± 2 KV Power supply input ± 1 KV
Immunity to radio frequency in common mode acc. to IEC/EN 61000-4-6	Level III 10 V (0.15 →80 M Hz) 80 % AM (1 K Hz)
Immunity to magnetical field acc. (IEC/EN 61000-4-8)	50, 60 Hz 30 A/m, 1 min.
Immunity to voltage dips and breaks acc. to IEC/EN 61000-4-11	0 % residual voltage / 1 cycle 40 % residual voltage / 10 cycles (50 Hz) / 12 cycles (60 Hz) 70 % residual voltage / 25 cycles (50 Hz) / 30 cycles (60 Hz)
Mains-borne and radiated emissions acc. to IEC/EN 61000-6-3	Class B

Insulation	
Insulation voltage	250 V
Insulation coordination (IEC/EN 60664-1)	Category III, degree of pollution 3 ; up to 2000 m
Shock waves	2,5 KV (1,2 / 50 µs)
Breakdown voltage conforming to IEC/EN 61812-1	2 KV / 1 min / 1 mA / 50 Hz
Insulation resistance	> 500 MΩ / 250 V DC / 1 min

Dimensions (mm)



Curves



Function A
Delay on energisation 1 relay

Connections

EMAR7 - EMAR9 - EMAR2

