

Single-Function Analog Timers

DIN-Rail Mount 17.5 mm

Chronos2 RQR1 Series

The Chronos 2 range of industrial timers: ideal for timing, monitoring and counting functions. Available in single or multi-function versions, to meet the specific needs of each application.



24 VDC / 24-240 VAC



IP40



Screw terminals

Electrical Control & Protection > Timer Relays > DIN-Rail > Analog > **Relay Output**

Highlights

- Mono-function
- Multi-range
- LED status indicator
- Screw terminals
- Nominal rating 5 A

Standards



Part Numbers

88827175



Functions: Q

Series: RQR1

Part numbering system

Product line:
88: Control

Output Type:
0: Static
1 / 2 / 3: Relay

Power Supply:
3: 12-240 VAC/DC
4: 24-240 VAC or 24-240 VAC/DC
5: 24 VDC / 24-240 VAC or 24-240 VAC/DC
6: 230-240 / 380-440 VAC

88

827

1

0

3

Casing:
827: 17.5 mm
865/866: 22.5 mm

Function:
0: Multifunction U
1: Function A
2: Function B
3: Function C
4: Function H/HT
5: Function L/Li
6: Function K
7: Function Q
8: Multifunction X

More info.



Specifications

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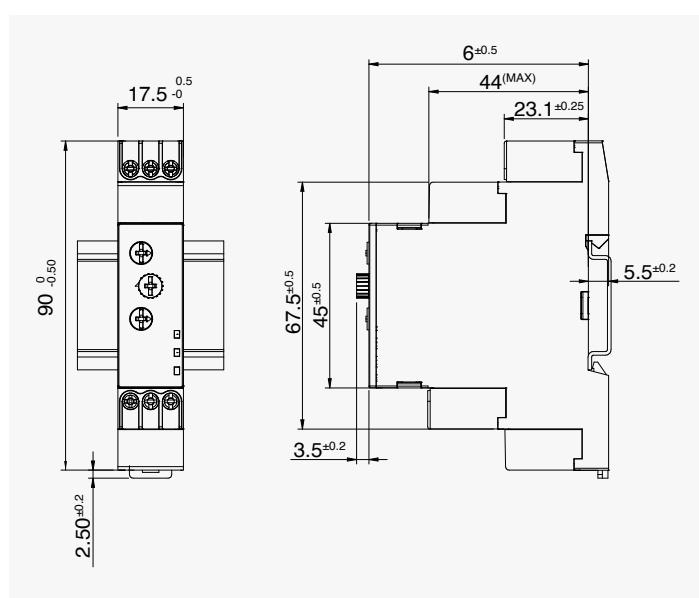
Inputs	
Supply voltage	24 VDC / 24-240 VAC
Voltage supply tolerance	-15%, +10%
Operating factor	100%
Max power consumption at Un	29.7 VA (240 VAC) 0.5 W (24 VDC)
Immunity to power micro cuts	< 10 ms
Timing	
Timing ranges	1 s - 10 s - 1 min - 10 min - 1h - 10h - 100h
Recovery time (after by de-energization)	120 ms
Setting accuracy (full range)	IEC/EN 61812-1: ± 0.5% with constant parameters
Drift temperature	± 0.05% /°C
Drift voltage	± 0.2% / V
Outputs	
Outputs configuration	2 open contacts
Maximum switching voltage	5 A 250 VAC resistive 5 A 30 VDC resistive
Maximum switching power (resistive)	250 VAC / 5 A resistive 250 VDC / 0.2 A resistive
Electrical life (operations)	6x10 ⁴
Minimum breaking current	10 mA / 5 VDC
Mechanical life (operations)	1 x 10 ⁷
Rated power	1250 VA / 50 W
Dielectric strength	IEC/EN 60664-1: 2.5 kV / 1 min / 1 mA / 50 Hz
Insulation	
Insulation coordination	IEC/EN 60664-1: Voltage surge category III
Rated impulse voltage	IEC/EN 60664-1, IEC/EN 61812-1: 5 kV (1.2/50 µs)
Clearance / creepage distances	IEC/EN 60664-1: 4 kV / 3 mm Pollution degree 2
Insulation resistance	IEC/EN 60664-1: 100 MΩ (500 VDC)
General characteristics	
Display	No, but status indicator. Un: green LED lights up continuously when supplied, blinks when counting R1: yellow LED lights up continuously when relay is closed R2: yellow LED lights up continuously when relay is closed
Display accuracy	IEC/EN 61812-1: ± 10% / 25°C
Casing	17.5 mm
Mounting	IEC/EN 60715: 35 mm symmetrical DIN-Rail
Mounting position	Vertical
Housing material	Self-extinguishing Incandescent wire test
Degree of protection	According to IEC/EN 60529: Terminal block: IP20 Housing: IP40 Front face: IP50

Specifications

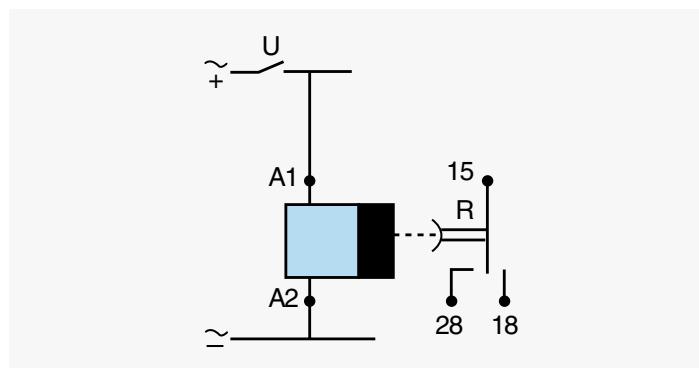
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General characteristics	
Terminal capacity	Single-wire without ferrule: 1x0.5 - 3.3 mm ² (AWG20 - AWG12) 2x0.5 - 2.5 mm ² (AWG20 - AWG14) Multi-wire with ferrule: 1x0.5 - 2.5mm ² (AWG20 - AWG14) 2x0.5 - 1.5mm ² (AWG20 - AWG16)
Maximum tightening torques	IEC 60947-1: 0.5 - 0.6 N.m
Operating temperature	-20°C to +60°C
Storage temperature	-30°C to +60°C
Humidity	IEC/EN 60068-2-30: 93% non-condensing
Vibration resistance	IEC/EN 60068-2-6: 20 m/s ² / 10 Hz - 150 Hz
Shock resistance	IEC/EN 60068-2-27: 15 g - 11 ms
Short interruption on power line	IEC/EN 61000-4-11: 0% residual voltage, 250/300 cycles
MTBF (according to IEC/TR 62380:2004)	106.75 years
Weight	70 g
Packaging	Compact carton recycled and recyclable No plastic
Standards	
Approvals / marking	CE, cULus Listed Industrial Control Equipment, CCC*
Conformity with environmental directives	2015/863/UE: RoHS 1907/2006: Reach
Immunity to electrostatic discharges	IEC/EN 61000-4-2: Level III (Air 8 kV / Contact 6 kV)
Immunity to radiated, radio-frequency, electromagnetic field	IEC/EN 61000-4-3: Level I (1 V/m: 2.0 GHz - 2.7 GHz) Level II (3 V/m: 1.4 GHz - 2.0 GHz) Level III (10 V/m: 80 MHz - 1 GHz)
Immunity to rapid transient bursts	IEC/EN 61000-4-4: Level III (direct 2 kV / Capacitive coupling clamp 1 kV)
Immunity to shock waves on power supply	IEC/EN 61000-4-5: Level III (2 kV / common mode 2 kV / residual current mode 1 kV)
Immunity to radiofrequency in common mode	IEC/EN 61000-4-6: Level III (10 Vrms: 0.15 MHz - 80 MHz)
Immunity to voltage dips and breaks	IEC/EN 61000-4-11: 0% residual voltage, 1 cycle 70% residual voltage, 25/30 cycles 0% residual voltage, 250/300 cycles
Mains-borne and radiated emissions	EN55032 (CISPR22): Class B EN55011 (CISPR11): Class B

Dimensions (mm)

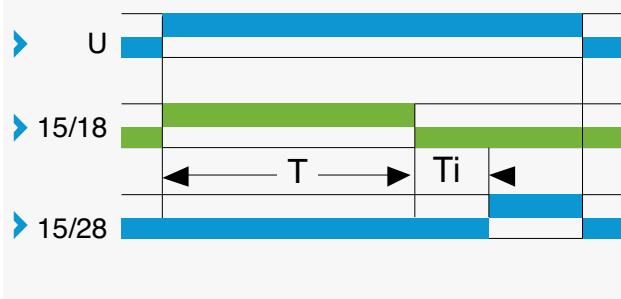


Wiring diagrams



Function diagrams

Function Q: Star-Delta



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