

Digital Timer

H5CN-XCN AC100-240



CG Image [3D-CAD]

48*48 mm , Flush Mounting/Surface Mounting , 1s to 99min 59s , UP Display Timer (Increments Form 0 to the Set Time)

Ratings / Performance

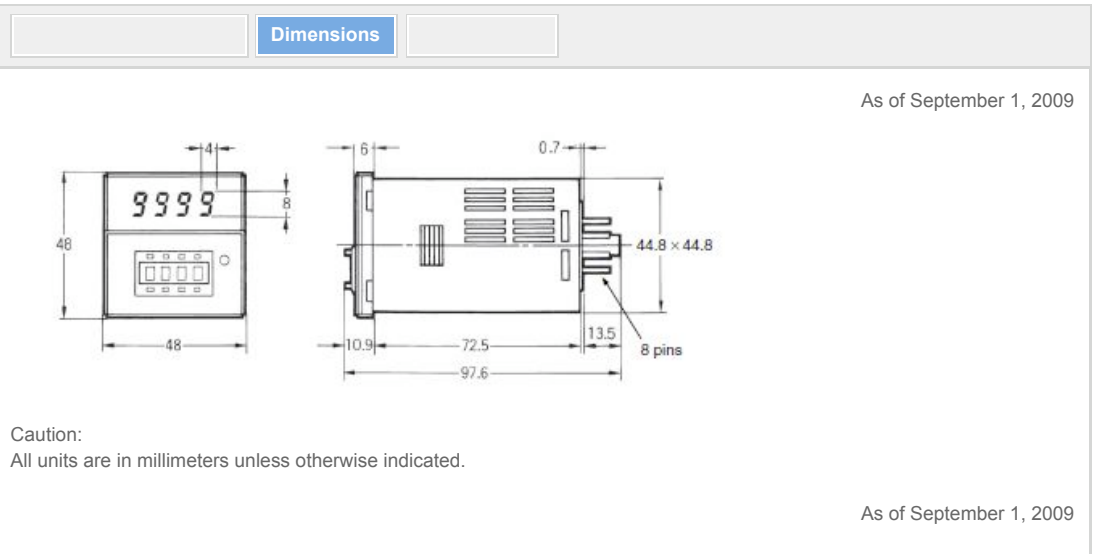
As of September 1, 2009

Rated supply voltage	100 to 240 VAC 50/60Hz
Operating voltage range	85% to 110% of rated supply voltage
Power consumption	Approx. 12 VA , 2.5 W (at 50Hz, 240 VAC)
Time ranges (Number of ranges)	1
Time ranges	1s to 99min59s
Select method	Thumbwheel Switch
Input signals	Reset, Gate
Input method	No-voltage input
Minimum input signal width	20 ms (reset, Gate)
Output modes	N (Power ON delay)
Control output (Contact output)	Type: SPDT Switching capacities (Resistive load): 3 A at 250 VAC/3 A at 24 VDC Switching capacities (Inductive load): 1 A 250 VAC(cos phi=0.4)/ 2.5 A 24 VDC(L/R=7 ms) Minimum applicable load: 10 mA at 5 VDC (failure level: P)
Reset system	Power reset, External reset
Power reset	Minimum power-opening time: 0.5 s
Timer mode	UP display timer (increments form 0 to the set time)
Display method	7-segment LEDs
Digit	4 digits
Character height	Present value: 8 mm (Red) Zero suppression: Not equipped
Ambient temperature	Operating: -10 to 55 CEL (with no icing or condensation) Storage: -25 to 65 CEL (with no icing or condensation)
Ambient humidity	Operating: 35% to 85% Storage: 35% to 85%

Total accuracy	Accuracy of operating time setting error temperature influences and voltage influences(including the rise time of the power source and the operating times of the internal and output circuits.) Power-ON start: 0.01% 50 ms max. Rated against set value Reset start: 0.005% 30 ms max. Rated against set value The values are based on the set value.
Insulation resistance	100 MOhm min. (at 500 VDC) between current carrying metal parts and exposed non-current carrying metal parts, between operating power circuit and control output circuit

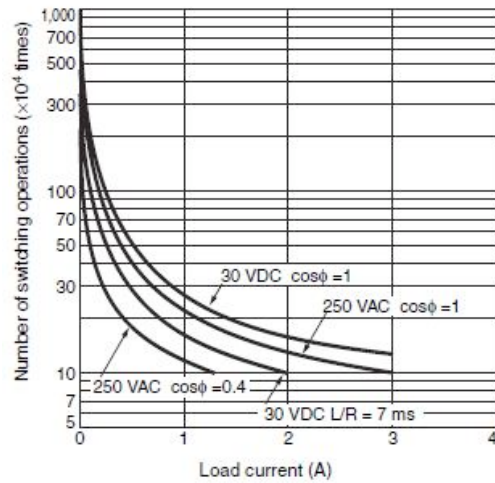
	operating power circuit and control output circuit
Dielectric strength	between current-carrying terminals and exposed non-current-carrying metal parts: 2000 VAC 50/60 Hz for 1 min between operating power circuit and control output circuit: 2000 VAC 50/60 Hz for 1 min
Impulse withstand voltage	between power terminals: 6 kV between current-carrying terminals and exposed non-current-carrying metal parts: 6 kV
Noise immunity	Between power terminals: +2 kV Square-wave noise by noise simulator (square-wave noise by noise simulator (pulse width: 100 ns/1 μ s 1-ns rise))
Static immunity	Multifunction: 8 kV
Vibration resistance (Destruction)	10 to 55 Hz 0.75 mm single amplitude each in 3 directions for 2 hours
Vibration resistance (Malfunction)	10 to 55 Hz 0.5 mm single amplitude each in 3 directions for 10min
Shock resistance (Destruction)	300 m/s ² 3 times each in 6 directions(3 axes)
Shock resistance (Malfunction)	100 m/s ² 3 times each in 6 directions(3 axes)
Mechanical Life expectancy (relay output)	10000000 operations min. (under no load at 1800 operations/h)
Electrical Life expectancy (relay output)	100000 operations min.(3 A at 250 VAC resistive load at 1800 operations/h)
Degree of protection	IEC60529(JEM): Panel surface: IP30
Applicable standard (UL)	Standard No.: UL508 File number: E41515
Applicable standard (CSA)	Standard No.: CSA C22.2 No.14 File number: LR22310
Mounting method	Flush mounting / Surface mounting
external connection method	8-pin round socket
Case color	Light gray (Munsell 5Y7/1)
Weight	Approx. 200 g

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A maximum current of 0.15A can be switched at 125 VDC ($\cos\phi = 1$)

Maximum current of 0.1 A can be switched if L/R is 7 ms. In both cases, a life of 100,000 operations can be expected. The minimum applicable load is 10 mA at 5 VDC (failure level: P reference value).

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