

Motor Timer

H2C

DIN Size 48 x 48 mm Motor Driven Timer

Five time ranges are selectable per timer.

Moving pointer to show remaining time.

ON delay and Run ON timing operations available.

H2C-8RA can be used to replace STPNR by using the Y92F-42 adaptor.



Ordering Information

Operation/resetting system		Time limit operation/ self-resetting	Time limit operation/electric resetting	
Internal connection		Separate motor and clutch connection		
Terminal		11-pin round socket	8-pin round socket	11-pin round socket
Time limit contact		SPDT		
Instantaneous contact		SPDT	–	SPDT
Model	Surface mounting/track mounting	H2C-S	H2C-8RA	H2C-RS
	Flush mounting	H2C-S (with Y92F-30 adaptor)	H2C-8RA (with Y92F-30 adaptor)	H2C-RS (with Y92F-30 adaptor)

Note: When placing your order, specify the desired supply voltage and rated time range code listed in the Specifications in addition to the model number.

■ Accessories (Order separately)

Applicable timer	Track mounted socket	Back connecting socket	
		Solder terminal	Screw terminal
H2C-8RA	P2CF-08	PL08	P3G-08
H2C, H2C-RS	P2CF-11	PL11	P3GA-11

Note: The track mounted socket can be used as a front connecting socket.
For socket dimensions, see Section 16.

Description	Model
Timer Hold Down Clips	Y92H-1
Time setting ring	Y92A-Y1
Protective cover	Y92A-48B
IP66 protective cover	Y92A-48N
Flush mounting adaptor	Y92F-30

Specifications

■ Ratings

Item	H2C
Rated supply voltage	24, 110 or 240 VAC, 50/60Hz*
Operating voltage range	85 to 110% of rated voltage**
Current consumption	Approx. 3.5VA
Control output	6 A at 250 VAC, cos ϕ = 1 (resistive load)***

Note: * The front panel of the timer is colour coded to identify the following supply voltage classifications:
100 to 120 V – Blue
200 to 240 V – Red
Other classes – Black

** If the voltage continues to be applied after the set time has elapsed, the operating voltage range will change to between 90 and 110% of the rated voltage.

*** The switching capacity of the control output is 6A 250 VAC (cos ϕ =1). Refer to Engineering Data since the electrical service life of the built-in switch will change in such a case.

■ Approved by standards

UL (File No. E52800)






SEV (File No. D5.21/73)

SEV (Licence No. D5.21/73)

■ Time range

Five time ranges are available for each timer by turning the time range selector every 60 degrees.

Note: Rated time is displayed on the window.

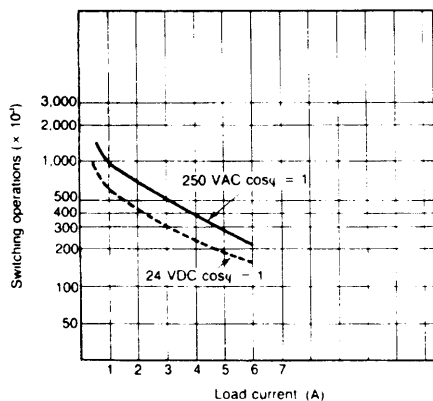
Time range code	Position of time range selector				
					
A	1.25 to 30 secs	7.5 secs to 3 mins	1.25 to 30 mins	7.5 mins to 3 hours	1.25 to 30 hours
B	0.2 to 6 secs	2 to 60 secs	0.2 to 6 mins	2 to 60 mins	0.2 to 6 hours

■ Characteristics

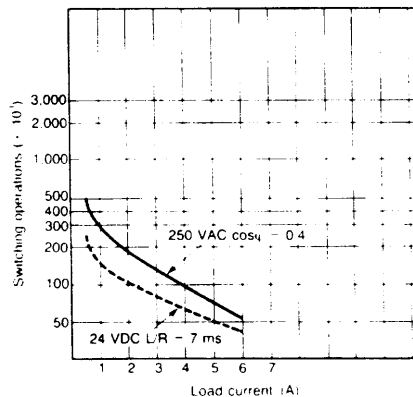
Item	H2C
Repeat accuracy	± 0.5% max. (1% max. at 0.2 to 6 seconds for the time range code B or at 0.5 to 12 seconds for the time range code C)
Setting error	± 2% max.
Resetting time	0.5 seconds max.
Variation due to voltage change	± 1% max.
Variation due to temperature change	± 2% max.
Insulation resistance	100 MΩ min. (at 500 VDC)
Dielectric strength	2,500 VAC. 50/60 Hz for 1 min (between current-carrying terminal and non-current-carrying parts) 2,000 VAC. 50/60 Hz for 1 min (between contact and control circuit and between contacts of different poles) 1,000 VAC. 50/60 Hz for 1 minute (between non-continuous contacts)
Vibration resistance	Mechanical: 10 to 55 Hz, 0.75-mm double amplitude Malfunction: 10 to 55 Hz, 0.5-mm double amplitude
Shock resistance	Destruction: 1,000 m/s ² (approx. 100G) Malfunction: 150 m/s ² (15G)
Ambient temperature	Operating: -10 to 55 °C Storage: -25 to 80 °C
Ambient humidity	Operating: 35% to 85% RH
Life expectancy	Mechanical: 30,000,000 operations min. Electrical: See Engineering data
Weight	Approx. 180g

Engineering Data

Electrical life expectancy
Resistive load

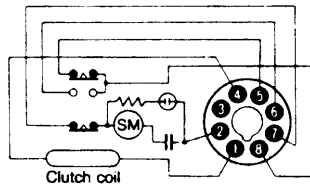


Inductive load

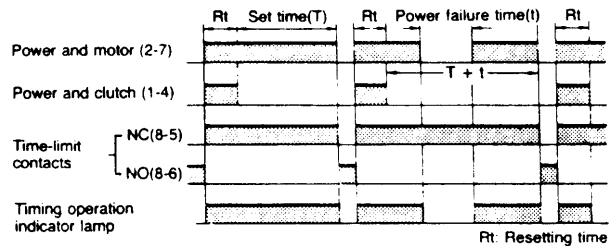


Connections/Timing Charts

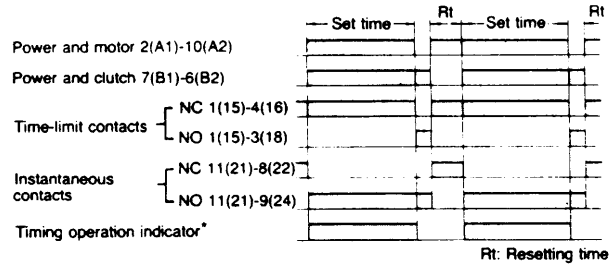
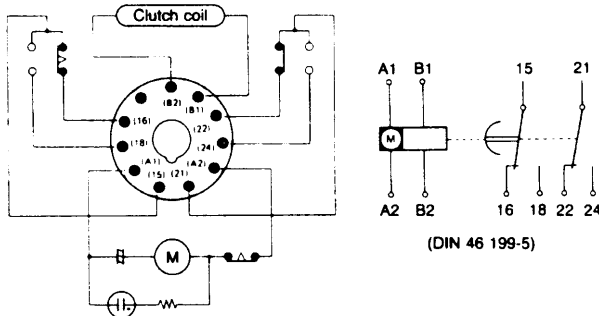
H2C-8RA
OFF-delay
8-pin round socket



Timing Chart

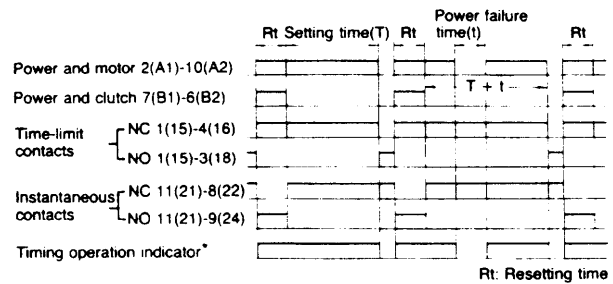
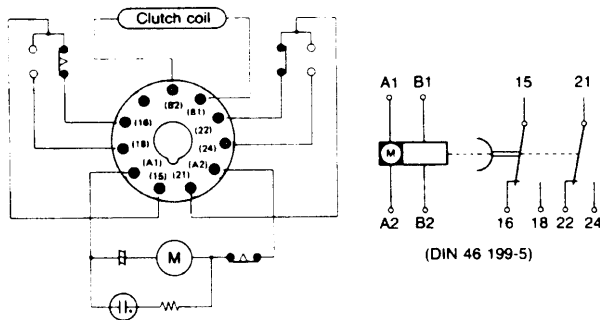


H2C-S



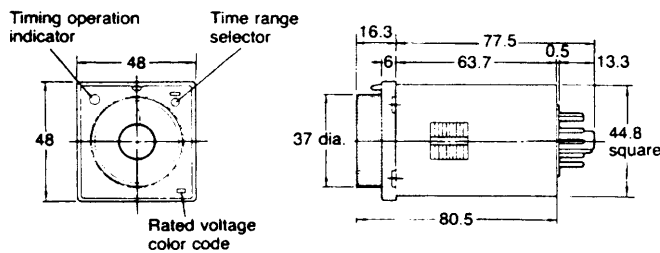
*For the types rated at 24 and 48 VAC, the timing operation indicator is not equipped.

H2C-R-S

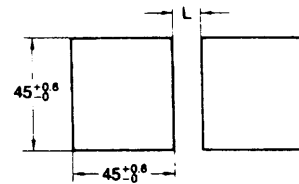


*For the types rated at 24 and 48 VAC, the timing operation indicator is not equipped.

Dimensions



For flush mounting



For a load current of 3 A max. dimension L becomes 3 mm min. with an interval of 0 mm between timers.
For a load current of 6 A max. dimension L becomes 8 mm min. with an interval of 5 mm between timers.

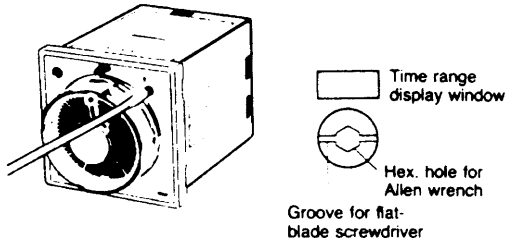
Precautions

How to change the time range

Change the positions of the time range selector with a flat-blade screwdriver or an Allen wrench.

Caution

Be sure to turn the power OFF before changing the time specification. Changing the time range while the timer is in operation may cause a malfunction.



How to select power frequency

Note: Before using the timer, set the frequency selector located at the rear panel to the proper power frequency (50 or 60 Hz). Note that if the frequency selector is set incorrectly, time measurement may not be performed accurately against the set time.

