



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for OMRON H2C. You'll find the answers to all your questions on the OMRON H2C in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual OMRON H2C  
User guide OMRON H2C  
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**OMRON**

**Motor Timer  
H2C**

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments. Refer to *Warranty and Application Considerations* (page 15), and *Safety Precautions* (page 10).

**DIN-sized (48 x 48, 45 x 75 mm) Motor Timer with Variable Time Ranges**

- Five time ranges are selectable per timer unit.
- Easy-to-monitor neon lamp for timing operation indication (for 110, 120, 220, 240 VAC types only).
- Easy-to-set large transparent knob and easy-to-read single pattern scale facilitate time setting.
- Equipped with timing operation indicator and moving pointer.
- Conforms to EN61812-1 and IEC60664-1 4 kW/1 for Low Voltage, and EMC Directives (except for H2C-F□).



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**Model Number Structure**

■ **Model Number Legend**

H2C-□ □  
1 2

1. External Connection/Attachment

Note: 11-pin socket  
S: 11-pin socket/time setting ring  
8: 8-pin socket  
F: Front screw

2. Operation/Resetting System

Note: Time-limit operation/self-resetting  
R: Time-limit operation/electric resetting

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**Ordering Information**

■ **List of Models**

Operation/resetting system	Internal connection	Terminal	Time-limit contact	Instantaneous contact	Attachment	Model
Time-limit operation/self-resetting	Parallel motor and clutch connection	8-pin socket	SPDT	SPDT	--	H2C-B
		11-pin socket	--	--	Y92A-Y1 Time Setting Ring	H2C-S
Time-limit operation/electric resetting	Separate motor and clutch connection	Front screw	--	--	--	H2C-F
		8-pin socket	SPDT	--	--	H2C-BR
		11-pin socket	SPDT	--	Y92A-Y1 Time Setting Ring	H2C-R
		Front screw	--	--	--	H2C-SR
						H2C-FR

Note: Specify both the supply voltage and time range code (A, B, or C) in addition to the model number when ordering.  
Example: H2C-S 24 VAC B

Time range code  
Supply voltage

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Motor Timer **H2C** 1



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**Manual abstract:**

Please consult your OMRON representative if you have any questions or comments. Refer to Warranty and Application Considerations (page 12), and Safety Precautions (page 10). DIN-sized (48 x 48, 45 x 75 mm) Motor Timer with Variable Time Ranges · Five time ranges are selectable per timer unit. @@@@ ·

Equipped with timing operation indicator and moving pointer. @@Operation/Resetting System None: Time-limit operation/self-resetting R: Time-limit operation/electric resetting 1. External Connection/Attachment None: 11-pin socket S: 11-pin socket/time setting ring 8: 8-pin socket F: Front screw Ordering

Information List of Models Operation/resetting system Time-limit operation/ self-resetting Internal connection Terminal Time-limit contact SPDT

Instantaneous contact SPDT --Attachment H2C-8 H2C Y92A-Y1 Time Set- H2C-S ting Ring --SPDT --SPDT --H2C-F H2C-8R H2C-R Y92A-Y1 Time Set-

H2C-SR ting Ring Front screw --H2C-FR Model Parallel motor and 8-pin socket clutch connection 11-pin socket Separate motor and clutch connection Front

screw Time-limit operation/ electric resetting 8-pin socket 11-pin socket Note: Specify both the supply voltage and time range code (A, B, or C) in addition to

the model number when ordering. Example: H2C-S 24 VAC B Time range code Supply voltage Motor Timer H2C 1 Accessories (Order Separately)

Name/specifications Flush Mounting Adapter Time Setting Ring (See note 1.) Mounting Track 50 cm (l) ´ 7.3 mm (t) 1 m (l) ´ 7.3 mm (t) 1 m (l) ´ 16 mm (t)

End Plate Spacer Protective Cover Track Mounting/Front Connecting Socket 8-pin 8-pin, finger safe type 11-pin 11-pin, finger safe type Back Connecting

Socket 8-pin, screw terminal 8-pin, finger safe type 11-pin 11-pin, finger safe type Hold-down Clip (See note 3.)

) For PL08 and PL11 Sockets For PF085A Socket Y92F-30 Y92A-Y1 PFP-50N PFP-100N PFP-100N2 PFP-M PFP-S Y92A-48B P2CF-08 P2CF-08-E

P2CF-11 P2CF-11-E P3G-08 P3G-08 with Y92A-48G (See note 2.) P3GA-11 P3GA-11 with Y92A-48G (See note 2.) Y92H-1 Y92H-2 Models Note: 1.

Supplied with H2C-S/-SR models. 2.

Y92A-48G is a finger safe terminal cover which is attached to the P3G-08 or P3GA-11 Socket. 3. Hold-down Clips are sold in sets of two. Specifications Time

Ranges 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 B C 1.25 to 30 s 0.2 to 6 s 0.5 to 12 s 7.5 s to 3 min 2 to 60 s 5 to 120 s 1.25 to 30 min 0.2 to 6 min 0.5 to 12

min 7.5 min to 3 h 2 to 60 min 5 to 120 min 1.25 to 30 h 0.

2 to 6 h 0.5 to 12 h Ratings Item Rated supply voltage (motor and clutch) Operating voltage range Power consumption Reset voltage Reset time Control

outputs Mounting method H2C 24, 48, 100, 110, 115, 120, 200, 220, or 240 VAC (50/60 Hz) (see note) 85% to 110% of rated supply voltage 4.2 VA max.

(3.96 W max.) 10% max. of rated supply voltage Minimum power-opening time: 0.5 s Minimum pulse width: 0.5 s 6 A at 250 VAC, resistive load (cos = 1)

Flush mounting (except for H2C-F/-FR models), surface mounting, DIN track mounting Note: The front panel of the timer is color coded to identify the

following supply voltage classifications: 100 to 120 V: Blue 200 to 240 V: Red Other classes: Black 2 Motor Timer H2C Characteristics Accuracy of

operating time Setting error Reset time Influence of voltage Influence of temperature Insulation resistance Dielectric strength ±0.5% FS max.

±1% max. at 0.2 to 6 s for the time range code B or at 0.5 to 12 s for the time range code C) ±2% FS max. 0.

5 s max. ±1% FS max. ±2% FS max. 100 M min. (at 500 VDC) 2,500 VAC, 50/60 Hz for 1 min (between current-carrying and non-current-carrying parts)

2,000 VAC, 50/60 Hz for 1 min (between contact and control circuit and between contacts of different polarities) 1,000 VAC, 50/60 Hz for 1 min (between non-

continuous contacts) Destruction: Malfunction: Destruction: Malfunction: Operating: Storage: Operating: Mechanical: Electrical: 20,000 h UL917, CSA

C22.

2 No.14. Conforms to EN61812-1 and IEC60664-1 4 kV/1 (except for H2C-F@ models). Output category according to EN60947-5-1 (except for H2C-F@

models). @@180 g H2C-F series: approx. @@(under no load at 1,800 operations/h) 500,000 operations 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.

@@@with an interval of 0 mm between timers. For a load current of 3 A max., dimension L becomes 15 mm min. with an interval of 5 mm between timers.

For a load current of 6 A max., dimension L becomes 20 mm min. @@Two, 4.5 dia. holes 4 50 max. @@@@1.

3 Two, 4.5 dia. holes 4 40±0.2 50 max. 19 20.

3 21.5 max. @@Two, 4.5 dia. holes 4 50 max.

@@@Two, 4.5 dia. holes 4 40±0.2 50 max. 30 31.2 max. @@@@Never disassemble, repair, or modify the H2C. This may occasionally cause electric

shock, fire, or malfunction. @@There are five possible settings. @@If the H2C has been stored at temperatures 10°C or lower, let it stand for 3 hours or

longer at room temperature before turning ON ure that no voltage is imposed on any terminal of the H2C.

Applicable Sockets: P2CF-@@, P2CF-@@-E, PF085A, PL@@. Wiring Basic insulation is ensured between the motor circuit, clutch circuit, and control

output circuit. (However, the H2C-8 motor circuit and clutch circuit use the same input.) Basic insulation is also ensured between the output circuits of

models with instantaneous output. Basic insulation: Overvoltage category III, pollution degree 1 (See note.) Operating parts: Reinforced insulation (double

insulation) (with a clearance of 5.5 mm and a creepage distance of 5.5 mm at 240 VAC) Output parts: Basic insulation (with a clearance of 3.0 mm and a

creepage distance of 3.0 mm at 240 VAC) Note: Overvoltage category II, pollution degree 1 if the Timer is mounted to the PL11 Socket.

Motor Timer H2C 11 Warranty and Application Considerations Warranty and Limitations of Liability WARRANTY OMRON's exclusive warranty is that the

products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON. OMRON

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