

1/16 DIN, Digital-Set Timer with
0.1 Second to 9,990 Hours Range

- 8 field-selectable operation modes
- Universal AC/DC supply voltage timers available
- Operations include ON-delay, Repeat cycle, Signal Interval/OFF-delay, Signal-OFF delay (I and II), Interval, Cycle and Signal ON-delay/OFF-delay
- Selectable no-voltage start, reset, gate and check inputs expand capabilities
- Time remaining LCD bar graph and LCD output status indicator
- Panel mounting adapters, sockets, and accessories may be ordered separately



Ordering Information

■ TIMERS

Add the supply voltage to the part number when you order ON-delay only timers H3CA-8 and H3CA-8H. For example, **H3CA-8H-AC/100/110/120**.

Timing function		8 field-selectable functions		ON-delay only	
Contact type	Time limit	SPDT	SPDT	SPDT	DPDT
	Instantaneous	–	–	SPDT	–
Terminal form		11-pin round socket	Front mounted screw terminals	8-pin round socket	
Part number		H3CA-A	H3CA-FA	H3CA-8H	H3CA-8
Supply voltages	AC	24 to 240 V, 50/60 Hz or		Specify 24 V, 100/110/120 V, or 200/220/240 V; 50/60 Hz	
	DC	12 to 240 V		Specify 12 V, 24 V, 48 V or 110 V	

■ ACCESSORIES

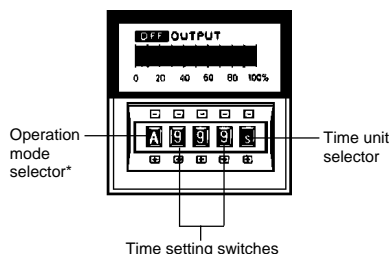
Description			Part number
Sockets	11-pin	Bottom surface or track mounting, top screw terminals	P2CF-11
		Bottom surface or track mounting, top screw terminals, finger safe terminal conforms to VDE0106/P100	P2CF-11-E
		Back mounting, for use with Y92F-30 mounting adapter, bottom screw terminals	P3GA-11
	8-pin	Bottom surface or track mounting, top screw terminals	P2CF-08
		Bottom surface or track mounting, top screw terminals, finger safe terminal conforms to VDE0106/P100	P2CF-08-E
		Back mounting, for use with Y92F-30 mounting adapter, bottom screw terminals	P3G-08
		Terminal cover for P3G sockets, conforms to VDE0106P100	Y92A-48G
Panel mounting adapter	Fits behind panel, ideal for side by side installation. Use P3G□-□ sockets.		Y92F-30
	Flush mounting adapter (88 mm x 58 mm x 63.7 mm)		Y92F-70
	Flush mounting adapter (58 mm x 50 mm x 63.7 mm)		Y92F-71

Accessories table continued on the next page.

ACCESSORIES, continued

Description		Part number
Protective cover	Hard plastic cover protects against dust, dirt and water; not for use with panel covers	Y92A-48B
	Soft plastic cover protects against dust, dirt and water; not for use with panel covers	Y92A-48D
NEMA 4 cover	Waterproof front cover	Y92A-48N
Colored panel covers	Light gray (Munsell No. 5Y7/1) to match case	Y92P-48GL
	Medium gray (Munsell No. 5Y5/1)	Y92P-48GM
	Black (Munsell No. N1.5)	Y92P-48GB
Mounting track	DIN rail, 50 cm (1.64 ft) length; 7.3 mm thick	PFP-50N
	DIN rail, 1 m (3.28 ft) length; 7.3 mm thick	PFP-100N
	DIN rail, 1 m (3.28 ft) length; 16 mm thick	PFP-100N2
End plate		PFP-M
Spacer		PFP-S

■ RANGE AND OPERATION MODE SELECTION



Time unit	Timing range
0.1 s	0.1 to 99.9 seconds
s	1 to 999 seconds
0.1 m	0.1 to 99.9 minutes
m	1 to 999 minutes
0.1 h	0.1 to 99.9 hours
h	1 to 999 hours
10 h	10 to 9990 hours

Mode	Operation
A	ON-delay
B	Repeat cycle
C	Signal Interval/OFF-delay
D	Signal OFF-delay I
E	Interval
F	Cycle
G	Signal ON-delay/OFF-delay
H	Signal OFF-delay II

Note: *Operation mode selector not included with ON-delay only models.

Specifications

Part number		H3CA-A	H3CA-FA	H3CA-8H	H3CA-8
Supply voltage	AC	24 to 240 V, 50/60 Hz		24 V, 100/110/120 V, 200/220/240 V; 50/60 Hz	
	DC	12 to 240 V		12 V, 24 V, 48 V, 110 V, (permissible ripple factor: 20% max. using single-phase, full-wave rectified power sources)	
Operating voltage		90 to 110% of rated voltage			
Power consumption	AC	4 VA		10 VA	
	DC	2 W		2W	
Timing functions		8 field-selectable modes: ON-delay, Repeat cycle, Signal Interval/OFF-delay, Signal ON/OFF-delay, Signal OFF-delay (I and II), Interval and Cycle		ON-delay only	
Start, reset, gate inputs		No voltage	No voltage	–	–
Control output	Type	SPDT		SPDT	DPDT
	Time limit	Instantaneous		SPDT	–
	Max. load	3 A, 250 VAC (p.f. = 1)			
	Min. load	10 mA, 5 VDC			
Repeat accuracy		±0.3%, ±0.05 sec (includes variation due to voltage and temperature changes)			
Setting error		±0.5%, ±0.05 sec			
Resetting system		Power-OFF, external and self-reset		Power-OFF	
Resetting time		0.5 sec max.		0.1 sec max.	
Indicators		Time Remaining (LCD bar graph), Output Status (LCD message)			
Materials		Plastic case			
Mounting		Panel, track, surface			
Connections		11-pin round socket	Terminal screws	8-pin round socket	

Specification table continued on the next page.

SPECIFICATIONS, continued

Part number		H3CA-A	H3CA-FA	H3CA-8H	H3CA-8
Weight		110 g (3.9 oz)	190 g (6.7 oz)	110 g (3.9 oz)	
Approvals		UL/CSA/SEV			
Operating ambient temperature		-10° to 55°C (14° to 131°F)			
Humidity		35 to 85% RH			
Vibration	Mechanical durability	10 to 55 Hz; 0.75 mm (0.03 in) double amplitude			
	Malfuction durability	10 to 55 Hz; 0.5 mm (0.02 in) double amplitude			
Shock	Mechanical durability	20 G			
	Malfuction durability	10 G			
Variation due to voltage change		See "Repeat Accuracy"			
Variation due to temperature change		See "Repeat Accuracy"			
Insulation resistance		100 MΩ min. at 500 VDC			
Dielectric strength		2,000 VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying parts and between contact and control circuit 1,000 VAC, 50/60 Hz for 1 minute between non-continuous contacts			
Service life	Mechanical	10 million operations minimum (under no load, at 1,800 operations/hour)			
	Electrical	100,000 operations minimum at maximum ratings			

Engineering Data

■ **ELECTRICAL SERVICE LIFE**

