

SHOPCORP AHC15A Digital Timer

Technical Parameter	Specification
Model	AHC15A Multi-Functional Timer
Product Type	Digital Programmable Time Switch
Applications	Designed for automatic ON/OFF control of compatible electrical loads using daily or weekly schedules, pulse programs, and countdown control.
Programming	Daily / Weekly
Mounting Type	Standard DIN Rail Mount
Rated Voltage	220VAC, 50Hz
Operating Voltage Range	85–110% of Rated Voltage
Contact Form	1 Group Changeover
Contact Load Capacity	- Resistive Load: 16A @ 250VAC, COS ϕ = 1 - Inductive Load: 10A @ 250VAC, COS ϕ = 0.6
ON/OFF Programs	20 Groups
Pulse Programs	38 Groups
Countdown Range	1 sec – 99 min 59 sec
Minimum Setting Time	- ON/OFF Program: 1 minute - Pulse Program: 1 second
Power Consumption	$\leq$ 5VA
Power Failure Memory	3 Years
Electrical Life	10 ⁵ operations
Mechanical Life	10 ⁷ operations
Contact Resistance	$\leq$ 100 m Ω
Insulation Resistance Between Contacts	$\geq$ 100 M Ω
Operating Temperature	-10°C to +50°C (Non-Icing)
Storage Temperature	-10°C to +60°C
Ambient Humidity	35–85% RH
Installation Environment	Do not use in locations exposed to dust, corrosive gas, direct sunlight, or rain.
Dimensions in mm	Max. 86.5 × 36.0 × 65.5 mm (H × W × D)
Dimensions in Inches	Approx. 3.41" × 1.42" × 2.58" (H × W × D)
Weight	Approx. 130 g / 0.29 lb

Features

- 20 ON/OFF Programs: Supports up to 20 programmable ON/OFF groups with daily or weekly scheduling for automatic load control.
- 38 Pulse Programs: Provides up to 38 programmable pulse settings with daily or weekly cycles for applications requiring short-duration switching.
- Countdown Function: Adjustable countdown control from 1 second to 99 minutes 59 seconds.
- Manual ON/OFF Control: Supports automatic operation as well as permanent ON and permanent OFF modes directly from the timer.
- Manual Daylight Saving Time: Allows the displayed time to be manually advanced by one hour for daylight saving time operation.
- Power Failure Memory: Built-in lithium battery maintains time operation during a power failure, with a specified power failure memory of 3 years.
- Operating Time & Action Counter: Allows users to check accumulated operating hours and the number of switching actions, with displayed values up to 99,990 hours and 99,990 actions.
- 12/24-Hour Display: Supports switching between 12-hour and 24-hour clock display modes.
- Key Lock Function: Includes a locking function to help prevent unintended changes to programmed settings.
- Data Copy Capability: Supports copying timer settings between compatible units using the manufacturer's dedicated data card.
- DIN Rail Installation: Designed for standard DIN rail mounting for integration into electrical control panels and enclosures.
- Countdown Function: Adjustable from 1 second to 99 minutes 59 seconds. Once configured, the countdown is started manually using the MANUAL button, allowing the user to control exactly when the countdown cycle begins.

Specifications and Wiring Diagram

