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## Wiring & Adjustment Diagrams

**DELAY-ON-MAKE & RECYCLING** 



ADJUSTMENTS A DOM В A SS В A R В A DOB В

DOM = Delay-on-Make SS = Single Shot/Interval R = Recycling DOB = Delay-on-Break

R	М	S
0.1-10s	X1s	C III E D III F
1-100s	X10s	C □∎ E D ∎□ F
10-1000s	X100s	C III E D III F
1-100m	X10m	C □∎ E D □∎ F



### Description

The ASQU and ASTU Series of 17.5 mm, knob adjustable, universal solid-state timers offer multiple functions, voltages, and time delay ranges. Choose one of 5 functions and 4 time delay ranges via 4 selection switches located on face of the unit. Adjustment through the time range is accomplished by an onboard knob.

The ASQU Series has guick connect terminals and the ASTU Series has terminal blocks.

### Features & Benefits

FEATURES	BENEFITS	
Universal AC or DC voltage	Choose from 24 to 240VAC or 9 to 110VDC models	
Compact 17.5mm size	Allows for high rail density	
Microcontroller based	Repeat Accuracy + / -1%	
Multifunction: 5 timing functions	Reduce stocking requirements	
Knob Adjustable Time Delay	Field adjustable delay ranging from 0.1s - 100m	
0.7A steady, 10A inrush solid-state output	Provides 100 million operations in typical conditions.	
Mounting fasteners lincluded	Each unit ships with both surface and DIN rail quick mount adapters	
Watchdog circuitry	Self monitoring and self correcting for improved performance	

#### Accessories



P1015-13 (AWG 10/12), P1015-64 (AWG 14/16), P1015-14 (AWG 18/22) Female Quick Connect These 0.25 in. (6.35 mm) female terminals are constructed with an insulator barrel to provide strain relief.



P0500-178 Surface Mount Adapter P0500-179 DIN Rail Mount Adapter For use with the ASxx/DSxx Series timers.

## **Ordering Information**

MODEL	INPUT VOLTAGE	CONNECTION
ASQUA3	24 to 240VAC	Quick Connects
ASQUD3	9 to 110VDC	Quick Connects
ASTUA3	24 to 240VAC	Terminal Blocks
ASTUD3	9 to 110VDC	Terminal Blocks

If you don't find the part you need, call us for a custom product 800-843-8848

SINGLE SHOT, INTERVAL & **DELAY-ON-BREAK** 



V = Voltage L = LoadJ=Wire Required for Interval Operation S1= Initiate Switch UTL = Optional Untimed Load

# ASQU / ASTU SERIES



#### Specifications

Time Delay Type

#### Adjustment

Range\* Repeat Accuracy Tolerance (Factory Calibration) Reset Time Initiate Time Time Delay vs Temp. & Voltage Input Voltage

AC Line Frequency/DC Ripple Output Type

Form Rating Voltage Drop Protection Surge Circuitry Dielectric Breaks

#### Dielectric Breakdown Polarity

Mechanical

Mounting DIN Rail Surface

Dimensions

Termination ASQU

#### ASTU

#### Environmental

Operating/Storage Temperature Humidity Weight Microcontroller based with ceramic resonator and watchdog circuitry Knob with dial; 2 switches select 1 of 4 multipliers 0.1 - 10s, 1 - 100s, 10 - 1000s, 1 - 100m ±1% or ±50ms, whicheer is greater

±2% or ±50ms, whichever is greater < 300ms Single Shot & Delay-on-Break: < 32ms

±2%, or ±50ms, whichever is greater

AC: 24 to 240VAC; -20% - 10% DC: 9 to 110VDC; -0% - 20% @ -25°C 9.4 to 110VDC; -0% - 20% @ -40°C 50/60Hz / ≤ 10%

Solid state NO 0.7A steady state, 10A inrush AC  $\approx$  2.5V @ 0.7A; DC  $\approx$  1.5V @ 0.7A

IEEE C62.41-1991 Level A Encapsulated ≥ 2000V RMS terminals to mounting surface DC units are reverse polarity protected

Two base adaptors are available Snap on to 32 mm DIN 1 & 35 mm DIN 3 rail Two #6 (M3.5 x 0.6) screws or quick mount fasteners H 76.2 mm (3.0"); W 17.52 mm (0.69"); D 61.2 mm (2.41")

0.25 in. (6.35 mm) male quick connect terminals 0.197 in. (5 mm) push-on terminal blocks for up to #14 AWG (2.5 mm<sup>2</sup>) wire

-40° to 60°C / -40° to 85°C 95% relative, non-condensing ≅ 4 oz (113 g)

\*For CE approved applications, power must be removed from the unit when a switch position is changed.

## **Mounting Diagrams**



P0500-179 DIN RAIL MOUNT Inches (Millimeters)

