TRB Series



Wiring Diagram



8-pin octal SPDT

11-pin DPDT

Ordering Information

MODEL	INPUT VOLTAGE	ADJUSTMENT	OUTPUT FORM	TIME TOLERANCE	TIME DELAY
TRB120A2Y30	120 V ac	Onboard	Octal, SPDT	+ /- 10 %	1–30 s
TRB120A3X600	120 V ac	Lock shaft	Octal, SPDT	+ /- 20 %	7–600 s
TRB120A4Y120	120 V ac	Onboard	11-pin, DPDT	+ /- 10 %	2–120 s
TRB24D10Y10	24 V dc/28 V dc	Fixed	11-pin, DPDT	+ /- 10 %	10 s



Description

Operation (Delay-on-Break)

Features & Benefits

Complete isolation of

Isolated, 8 A, SPDT or

DPDT output contacts

circuit from line Industry standard 8 or

11-pin connection

Digital circuitry

voltage is applied.

output.

FEATURES

The TRB series combines an isolated, 8 A electromechanical relay output with digital timing circuitry. False trigger of the TRB by a transient is unlikely because of the complete isolation of the circuit from the line prior to initiation. The initiate contact is common to one side of the line and may be utilized to operate other loads. Installation is easy due to the TRB's industry standard 8- or 11-pin plug-in base wiring.

Input voltage must be applied before and during timing. Upon closure of the initiate switch, the output relay energizes. The time delay begins when the initiate switch is opened (trailing edge triggered). The output remains energized during timing. At the end of the time delay, the output de-energizes. The output will energize if the initiate switch is closed when input

Reset: Reclosing the initiate switch during timing resets the

BENEFITS

replacement

voltage sources

Repeat accuracy +/- 2 %

No false trip due to transients

Provides easy installation and field

Allows control of loads with independent

time delay. Loss of input voltage resets the time delay and

Accessories



OT08PC 8-pin Octal Socket for UL listing* 8-pin 35 mm DIN-rail or surface mount. Rated

at 10 A @ 600 V ac. Surface mounted with two #6 screws or snaps onto a 35 mm DIN rail.



OT11PC Octal Socket for UL listing* 11-pin surface & DIN rail mountable. Rated for 10 A @ 300 V ac



P1011-6 Octal Socket for UL listing* 8-pin surface mount socket with binder head

screw terminals. Rated 10 A @ 600 V ac.



C103PM (AL) DIN Rail

35 mm aluminum DIN rail available in a 36 in. (91.4 cm) length.

Function Diagram



V = Voltage S1 = Initiate Switch NO = Normally Open Contact NC = Normally Closed Contact TD = Time Delay t = Incomplete Time Delay R = Reset $-\sqrt{-}$ = Undefined Time

Specifications

Time Delay Туре Range **Repeat Accuracy Fixed Time Tolerance** & Setting Accuracy **Initiate Time Reset Time Recycle Time** Time Delay vs Temp. & Voltage Input Voltage Indicator Tolerance 24V dc/ac 120 V ac **AC Line Frequency Power Consumption** Output Туре Form Rating

Life

Protection Insulation Resistance Isolation Voltage Polarity Mechanical Mounting Dimensions

Termination

Environmental Operating/Storage Temperature Weight Safety Marks

UL (socket required)*

24/28 V dc; 120 V ac LED indicates relay is energized

See "Ordering Information" table

-15 %-20 % -20 %-10 % 50/60 Hz ≤ 3.25W

Digital circuitry

±5, 10, or 20 %

±2 %

≤ 70 ms

< 75 ms

≤ 250 ms

≤±5 %

Electromechanical relay Isolated SPDT or DPDT 8 A resistive @ 120/240 V ac 1/3 hp @ 120/240 V ac Mechanical - 1 x 10⁷; Electrical - 1 x 10⁶

 \geq 100 M Ω \geq 1500 V rms between input to output Dc units are reverse polarity protected

Plug-in socket H 44.45 mm (1.75"); W 60.33 mm (2.38"); D (with socket) 104.78 mm (4.13") Octal 8-pin plug-in or 11-pin plug-in

-20 °C to 65 °C $\,$ / -30 °C to 85 °C

≅ 4 oz (113 g)

UL 508 (E57310)

*UL Listed when used with Part Number OT08-PC, RB08-PC, OT11-PC, or RB11-PC manufactured by Custom Connector Corp.

Note: Manufacturer's recommended screw terminal torque for the OT series sockets is 12 in-lbs.

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