AMETEK NCC
National Controls Corp.
Phone 800-323-2593
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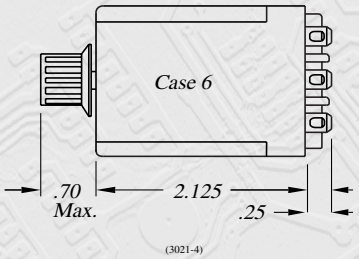
www.nationalcontrols.com

Features

- File #E59090
- 100% Life Tested
- Time Delays To 10 Hours*
- No False Contact Transfer When Reset During Timing
- Compact In Size
- Spade Type Base
- Low Cost
- Wide Operating Temperature Range
- Fiberglass Reinforced Circuit Board
- Polycarbonate, 94V-2 Housing Material



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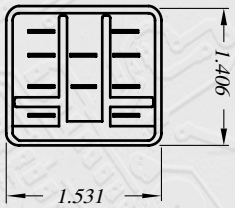
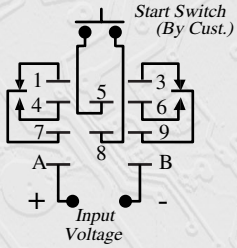




Polarity Shown is for D.C. Models

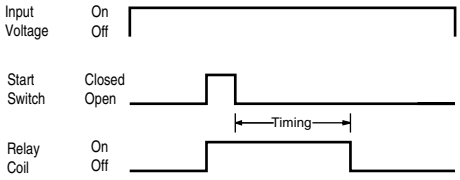
Time Delay Relays

Delay On Break
(Retriggerable)
K3 Series

Operating Logic: Input voltage is applied to the timer at all times. Upon a closure of a normally open isolated start switch, the output relay is activated and remains so as long as the switch is kept closed. When the start switch is opened, timing starts. At the end of the preset time delay, the output relay is de-activated and the timer is ready for a new cycle.

Note: 1) Do not apply voltage or ground to the start switch, 2) Switch leads should be shielded when running close to other wires: 3) If the start switch is re-closed during timing, the timer will reset and will not start timing until start switch is opened (Start switch supplied by customer).

Logic Function Diagram:



Specifications

Time Delay
Adjustment: Knob, factory fixed on special order (Minimum order required)
Range: 50 mS to 1 Hour in 9 ranges
Repeatability: ± 3% at constant temperature
Accuracy: Maximum time +10% / -0%;
Minimum time -50% / +0%
Reset Time: 150 milliseconds maximum
Start Switch Closure Time:
50 mS to initiate timing;
100 mS to reset delay during timing

Input
Operating Voltage: 120 volt A.C. ± 10%
Power Consumption: 3 VA maximum
Frequency: 50/60 Hz

Output
Type: Relay Contacts, D.P.D.T. (2 form C) Silver Cad. Oxide material
Rating: 10 amp. max. resistive at 240 volts A.C.
100 mA at 5 VDC min. Load current
Life: Mechanical -10,000,000 operations
Full Load - 500,000 operations

Protection
Transient Voltage: 120 volt timers are protected by a 5 joule metal oxide varistor
Dielectric Breakdown: 1500 VAC, RMS minimum at 60 Hz between input and outputs and between outputs

Mechanical
Termination: Spade (.187" x .020" terminal) type plug-in base
Mounting:
Socket Mount - Part Number MSO-00KUP-012

Environmental
Storage Temperature: -23°C to 70°C
Operating Temperature: -23°C to 55°C

Due to a redesigned digital timing circuit, the K3 Series now offers a greater time range capability; up to 10 hours. Consult factory for details.

Ordering Information

Input Voltage and Appropriate Part Numbers				
Time Range	**12VDC**	**24VDC**	**24VAC**	**120VAC**
.05-2 Second	✆	✆	✆	K3K-00002-661
.05-5 Seconds	✆	✆	✆	K3K-00005-661
.1-10 Second	✆	✆	✆	K3K-00010-661
.6-60 Seconds	✆	✆	K3K-00060-667	K3K-00060-661
1.2-120 Second	✆	✆	✆	K3K-00120-661
1.8-180 Seconds	✆	✆	✆	K3K-00180-661
3-300 Seconds	✆	✆	✆	K3K-00300-661
6-600 Seconds	✆	✆	✆	K3K-00600-661
36-3600 Seconds	✆	✆	✆	K3K-03600-661

✆ **Call For Availability**