

8/3/00

## Introductory Product Specification TWO TERMINAL C CASE CURRENT ACTUATED SWITCH

**Model number**

CAS-TTCK-3A-400V-1.75A-60Hz

**Absolute stress above which the unit may be damaged.**

|  | Min | Max  | unit   |
|--|-----|------|--------|
| Ambient temperature                        | -80 | 85   | °C     |
| Voltage across output "contacts"           |     | 400  | V-peak |
| Instantaneous current in output "contacts" |     | 40.0 | A-peak |
| Shock (any axis)                           |     | 2500 | g      |

**Range over which calibration is guaranteed.**

|  | Min | Typ | Max | unit    |
|--|-----|-----|-----|---------|
| Ambient temperature                      | -40 |     | 80  | °C      |
| Frequency                                | 59  | 60  | 61  | Hz      |
| Total harmonic distortion of the current |     |     | 3.0 | percent |
| Vibration (1Hz-10kHz)                    |     |     | 200 | g       |

**Operating parameters.**

|  | Min  | Typ  | Max  | unit   |
|--|------|------|------|--------|
| Output impedance (Note 1)                                  |      |      | 0.8  | ohms   |
| Isolation (Note 2)   | 4500 |      |      | V-rms  |
| Turn on switch current (25°C) (Note 3)                     |      | 3.00 |      | A-rms  |
| Turn on versus temperature                                 | 2.75 | 3.00 | 3.25 | A-rms  |
| Thermal coefficient(Prop. magnitude of current).           | .030 | .055 | 0.08 | % / °C |
| Turn on time constant                                      | 16   | 26   | 40   | mS     |
| Turn off time constant                                     | 25   | 37   | 50   | mS     |
| Continuous RMS or DC current thru closed output "contacts" |      |      | 1.75 | A-rms  |

**Physical**

|                       | Min                | Typ   | Max | unit  |
|-----------------------|--------------------|-------|-----|-------|
| Depth                 |                    | .540  |     | inch  |
| Length                |                    | 1.41  |     | inch  |
| Width                 |                    | 1.500 |     | inch  |
| Sensing hole diameter |                    | .500  |     | inch  |
| Weight                |                    | 40    |     | grams |
| Flammability          | Self extinguishing |       |     |       |

**Note** The output impedance of closed contacts is modeled as a bidirectional silicon diode (0.6volts) in series with the resistance shown and is independent of polarity.

**Note** Isolation may be better depending on the insulation of the user's current carrying conductor.

**Note** Single turn specified, multi turns increases sensitivity.

**Note** (Six turns will turn on at approx. 0.5 Amps)

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