VCA series

Single Phase Undervoltage Relay

- Automatic reset minimizes equipment downtime.
- Fixed pickup point prevents low voltage start-up.
- Adjustable dropout point protects against undervoltage operation.
- Delayed dropout prevents nuisance tripping.
- Compact, inexpensive design saves space, reduces cost.
- Solid state circuitry for enhanced accuracy and long life.
- LED indicates normal voltage condition.

ꞄU File E60363

Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

Function

Single phase undervoltage relay.

Sensing Specifications

Voltage Set-Point Adjustment: Internal potentiometer (screwdriver adjustable) with linear calibrated dial.
Response Time: Depending on severity of undervoltage: 0.1 - 1 sec.
Accuracy: Repeat Accuracy: ±0.2%
  Overall Accuracy: ±1%.

Output Data

Arrangement: 1 Form C (SPDT).
Rating: 7A @ 250VAC; 1/6 HP @ 250VAC; 300VA @ 120/240VAC; 3A @ 30VDC.
Expected Mechcanical Life: 10,000,000 operations.
Expected Electrical Life: 100,000 operations at rated resistive load.

Initial Dielectric Strength

Between Terminals and Case: 1,480V.
Between Relay Contacts and Active Circuitry: 1,480V.

Outline Dimensions and Wiring Diagram

Input Data

Voltage: 120VAC, 240VAC.
Power Requirement: 4W, max.
Transient Protection: 120VAC .... 30 joules
  240VDC .... 30 joules
  120VAC .... 10 joules
  120VDC .... 10 joules

Environmental Data

Temperature Range: Storage: -40°C to +85°C.
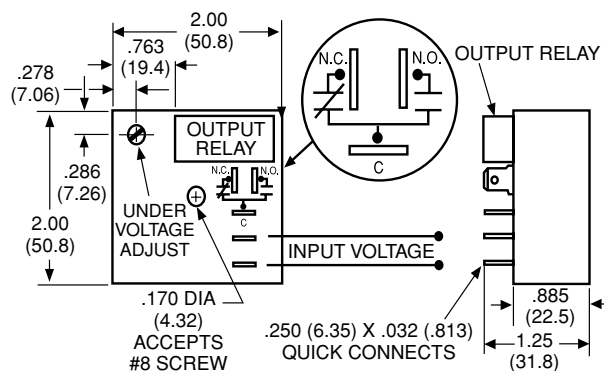 **Operating:** -23°C to +55°C.

Mechanical Data

Mounting: Panel mount with one #8 screw.
Termination: 0.250 in (6.35) quick connect terminals.
Status Indication: LED indicates normal voltage condition.
Weight: 3.2 oz. (90.7g) approximately.

Ordering Information

Part Number	Operating Voltage
VCAA	120VAC
VCAB	240VAC

Authorized distributors are likely to stock the following:

None at present.

Dimensions are shown for reference purposes only.

Dimensions are in inches over (millimeters) unless otherwise specified.

Specifications and availability subject to change.

www.tycoelectronics.com
Technical support:
Refer to inside back cover.

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