Datasheet

CSR

Current Sensing

Relay Module

The CSR-25 senses the RMS current to a load such as a motor or a heater and provides a form C (SPDT) relay contact output.

The current level which turns the relay on is based on the number of turns through the current sensing toroidal transformer. A single turn will cause the relay to turn on at approximately 8A. Two turns will lower the level to 4A. The maximum load current is 25A.

Features:
- compact DIN rail mounted package
- 1Amp, 1 form C relay output
- no adjustment or calibration needed
- CSA approved
### Rated data

#### Input
- **Current**
  - maximum continuous surge (20mS): 25A @ 1 turn
- **Voltage maximum**
  - 100A
- **Frequency**
  - 600Vac (based on insulation of load wire)
- **Wire diameter maximum (including insulation)**
  - 50/60Hz
  - 10mm

#### Output
- **Contact arrangement**
  - material: palladium - nickel with gold-rodium overlay
  - ratings:
    - 1A @ 24Vdc resistive, 0.5A @ 120Vac resistive
  - maximum current: 1A
  - maximum switching:
    - 30W or 60VA
    - 0.01mA @ 10mV
  - turn-on/maximum/turn off current:
    - loops through toroid 1: 8A
    - loops through toroid 2: 4A
    - loops through toroid 3: 2.5A
    - loops through toroid 4: 2A

#### General
- **Terminals wire size**
  - 26-12AWG
- **Isolation input-output**
  - based on the insulation of the load wire
- **Temperature**
  - operating: 0-60°C
  - storage: -20° - 60°C
- **Dimensions in mm (length x width x height)**
  - 45 x 66 x 60.5

### Ordering Data
- **CSR-25 rail mounted TS35 / TS 32 / W / TS 32 / Y**
- Panel mount version without RS45 housing
- **Cat.No.**
  - 991609
  - 991581