

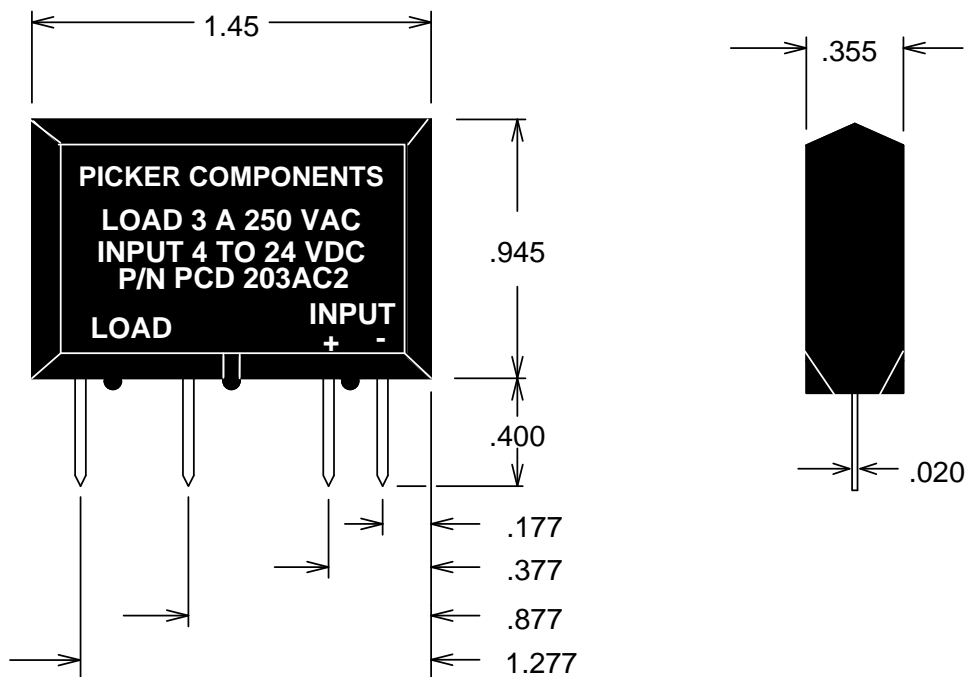


**FEATURES**

- Narrow profile for high density spacing
- Solid Epoxy Body Resistant to the environment
- 4,000 Volt isolation between input and output
- 4 to 24 Volt DC input
- Completely sealed, Immersion cleanable
- 3 Amp AC Output
- 50 to 250 AC Volt Output
- Zero crossing switching
- Built in snubber network
- Very high surge resistance

**Dimensions in Inches**

**Drawing is 2 X Scale**



| Absolute Maximum Ratings at 25 Degrees C |  |             |           |         |
|--|--|-------------|-----------|---------|
| Parameter                                |  | Symbol      | Rating    | Unit    |
| Input                                    | Input signal voltage                   | $V_{IN}$    | 4 - 24    | V DC    |
|  | Drop out voltage                       | $V_{do}$    | 1         | V DC    |
| Output                                   | RMS on state current                   | $I_T$       | 3         | A rms   |
|  | Peak one cycle surge current           | $I_{surge}$ | 30        | A       |
|  | Repetitive peak off state voltage      | $V_{DRM}$   | 600       | V       |
|  | Operating frequency                    | $f$         | 47 - 70   | Hz      |
|  | Critical rate of rise on state current | $di/dt$     | 50        | A/μS    |
|  | Load supply voltage                    | $V_{out}$   | 250       | Vrms AC |
| Isolation voltage input to output        |  | $V_{iso}$   | 4000      | Vrms    |
| Operating temperature                    |  | $T_{opr}$   | -30 - 100 | °C      |
| Storage temperature                      |  | $T_{stg}$   | -30 - 125 | °C      |
| Soldering temperature 10 seconds         |  | $T_{sol}$   | 260       | °C      |

| Electrical Characteristics at 25 Degrees C     |  |               |                          |                    |
|--|--|---------------|--------------------------|--------------------|
| Parameter                                      |  | Symbol        | Conditions               | Unit               |
| Input  | Pick up voltage                            | $V_{pu}$      | $I_t = 1A_{rms}$         | 4V DC MAX          |
|  | Input current                              | $I_{in}$      | $V_{in} = 4 - 24V$       | 5 TO 12 mA         |
| Output   | On state voltage                           | $V_T$         | $I_t = 1A_{rms}$         | 1.5V rms MAX       |
|  | Operating current                          | $I_{op}$      | $V_{out} = 240 V_{rms}$  | 50 mA rms MIN      |
|  | Leakage current                            | $I_{leak}$    | $V_{out} = 240 V_{rms}$  | 7 mA rms MAX       |
|  | Critical rate of rise of off state voltage | $dv/dt$       | See Note 1               | 50 TO 200V/μS      |
|  | Zero cross voltage                         | $V_{ox}$      | $I_{in} = 7mA$           | 35 VAC MAX         |
|  | Load voltage rating                        | $V_{out}$     | $I_T = 50 mA_{rms} Min.$ | 50 TO 280VAC       |
| Minimum trigger current                        |  | $I_{FT}$      | $V_{DRM} = 600 V$        | 10 mA MAX          |
| Isolation resistance input to circuit          |  | $R_{iso}$     | DC 500 V                 | $10^{10}$ OHMS MIN |
| Turn on time                                   |  | $T_{on}$      | 60 Hz AC                 | 8.3 ms MAX         |
| Turn off time                                  |  | $T_{off}$     | 60 Hz AC                 | 8.3 ms MAX         |
| Thermal resistance (between junction and case) |  | $R_{th(j-c)}$ |                          | 1.3 °C/W           |

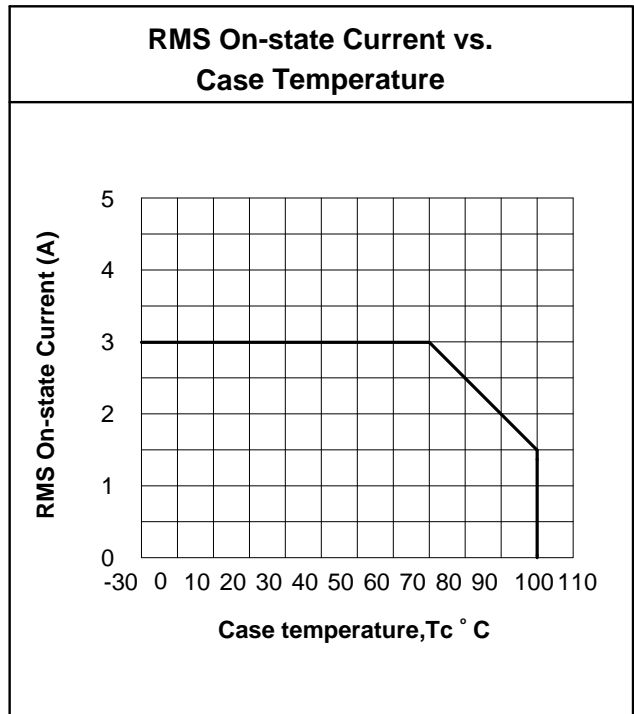
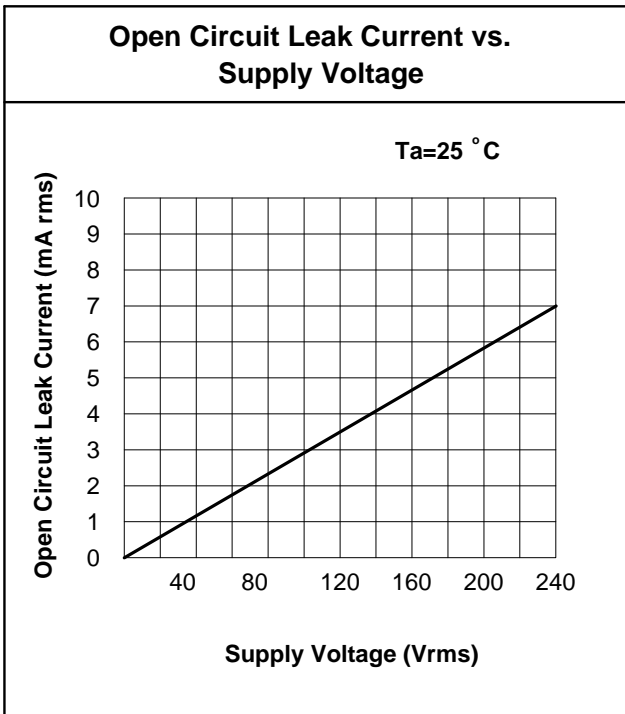
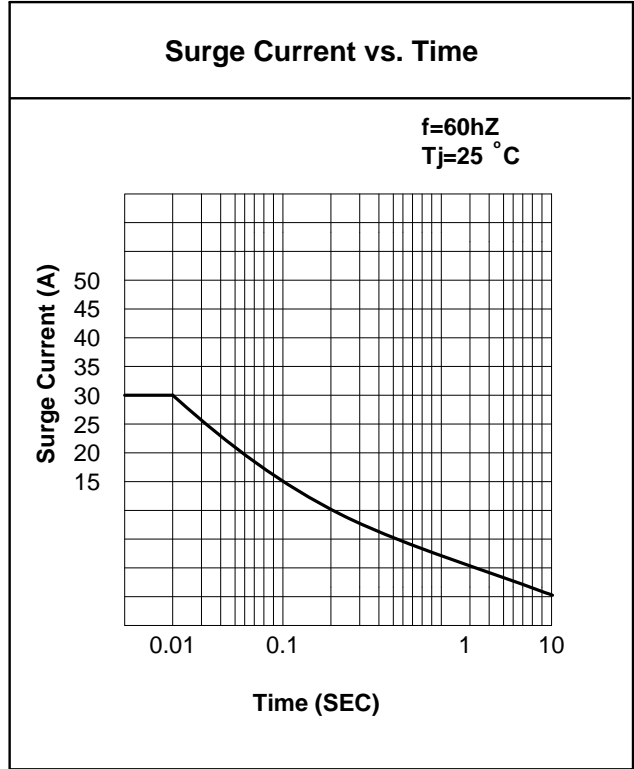
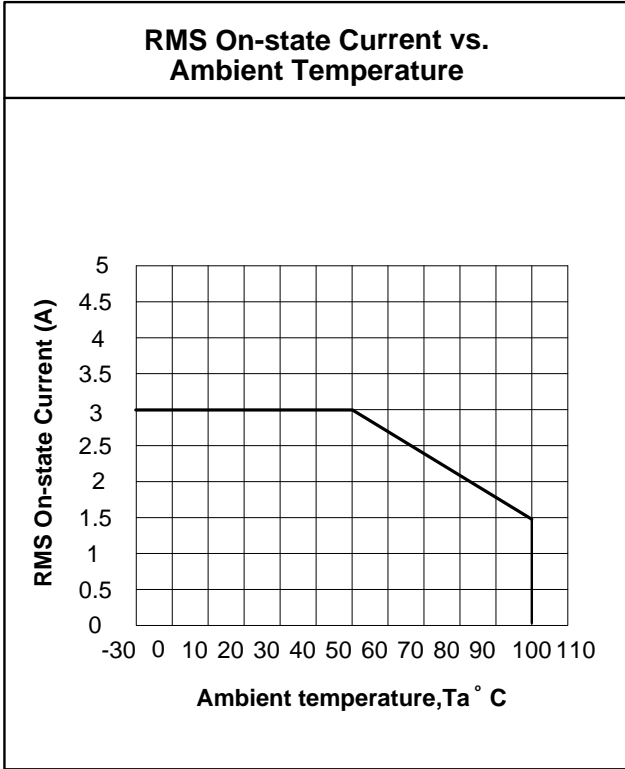
NOTES: 1. Output (dv/dt) protection is provided on all models. They are designed to switch resistive or inductive loads to 0.2 power factor. The dv/dt rating is based on a source impedance of 50 ohms.



3220 Commander Drive, Suite 102, Carrollton, Texas 75006

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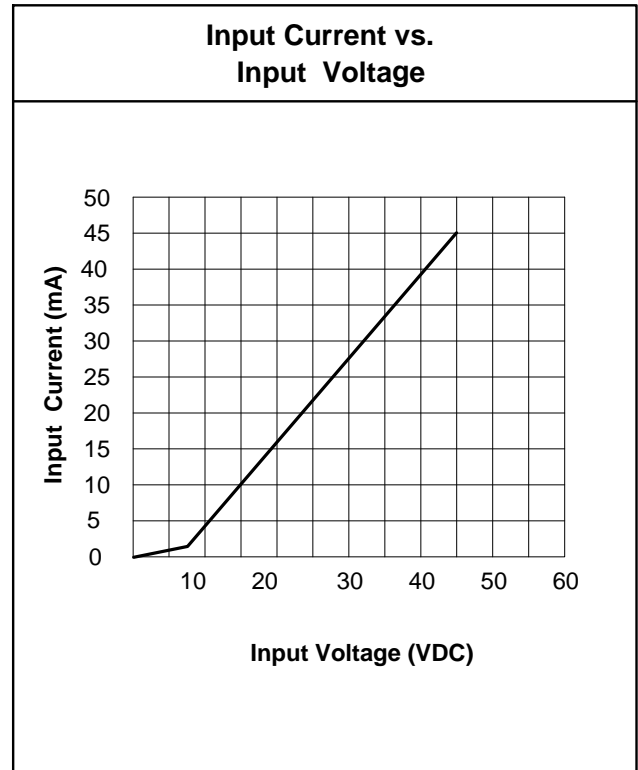
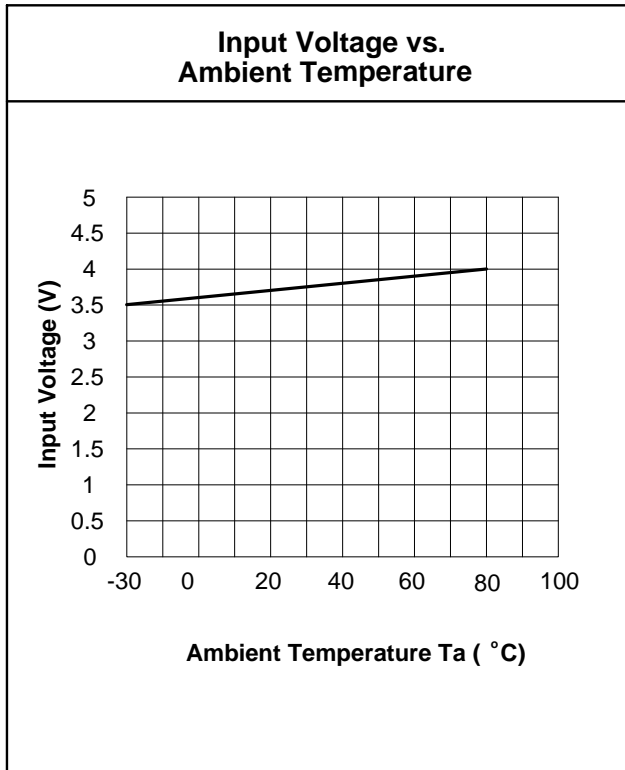
**CHARACTERISTIC CURVES**



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## CHARACTERISTIC CURVES

**NOTES:**

**3 AMP Rating is UL recognized and certified for Canada at 50 degrees C.**

**This SSR will carry up to 5 Amps at 30 Degrees C non UL.**

**Zero Crossing switching and 4,000 volt isolation make this relay CE compliant**

**.355 Inch thickness allows high density spacing**



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