

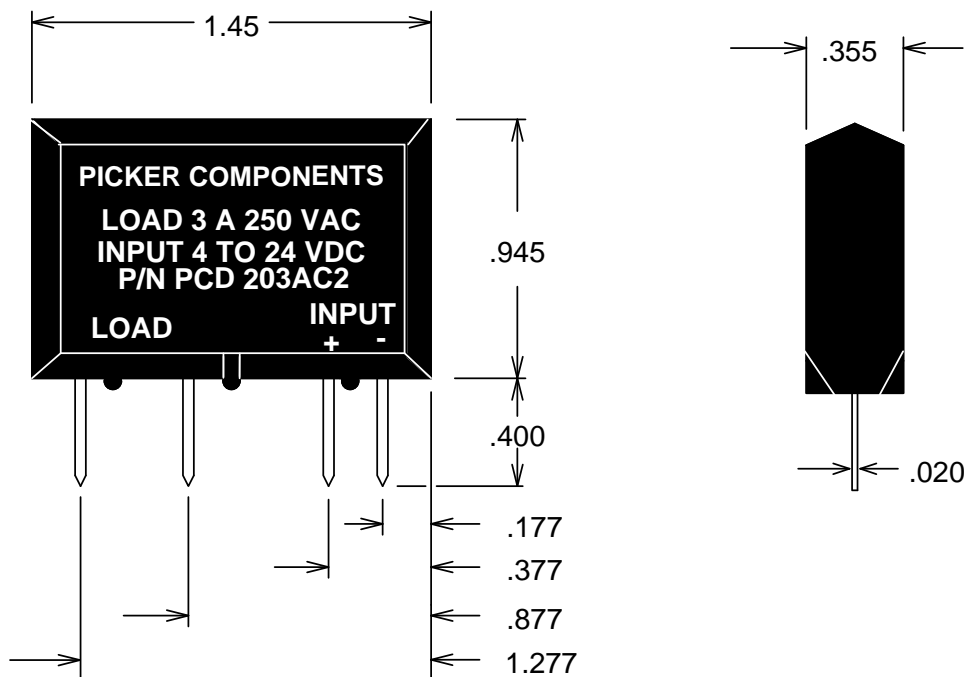


**FEATURES**

- 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

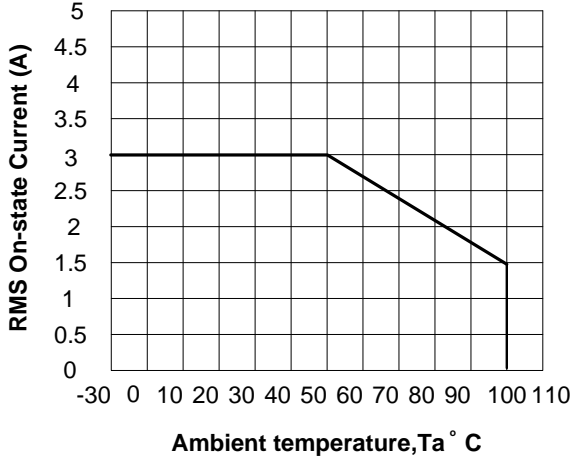
NOTES: 1. Output (dv/dt) protection is provided on all models. They are designed to switch resistive or inductive loads to 0.2 power factor. The dv/dt rating is based on a source impedance of 50 ohms.



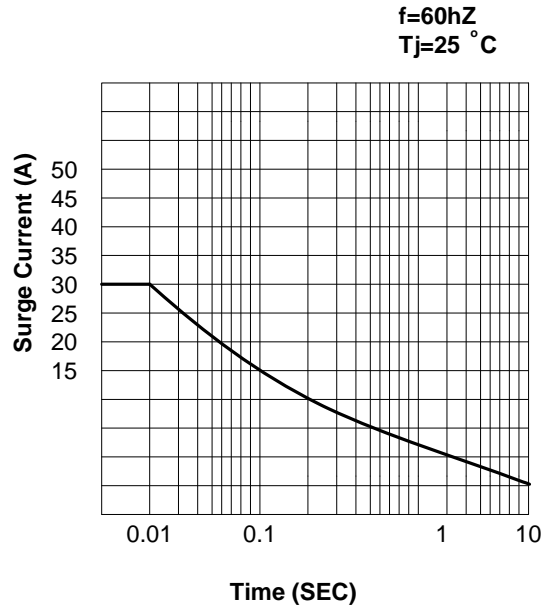
3220 Commander Drive, Suite 102, Carrollton, Texas 75006  
 Sales: (888)997-3933 Fax: (818) 342-5296 email: sales@pickercomponents.com URL: pickercomponents.com

**CHARACTERISTIC CURVES**

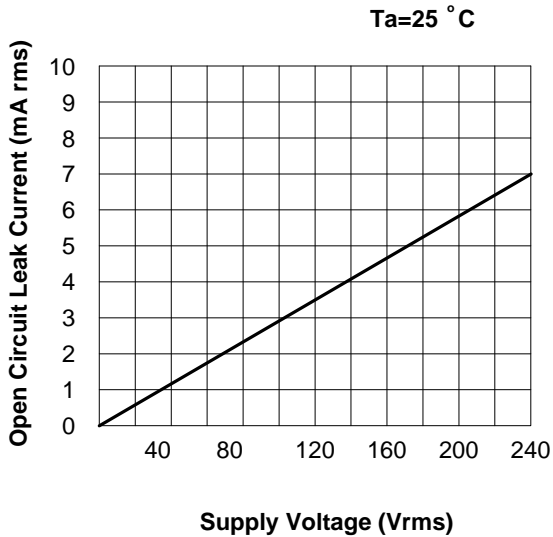
**RMS On-state Current vs. Ambient Temperature**



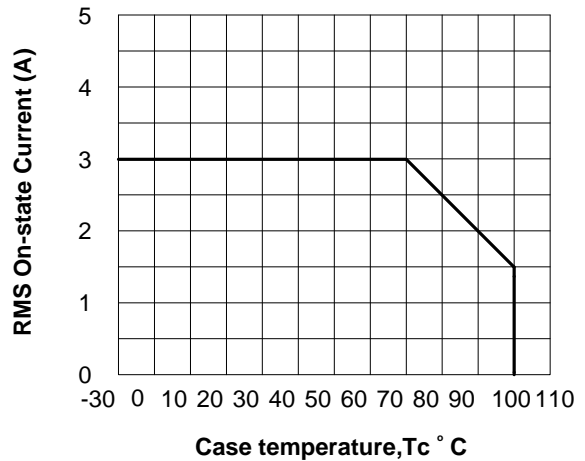
**Surge Current vs. Time**



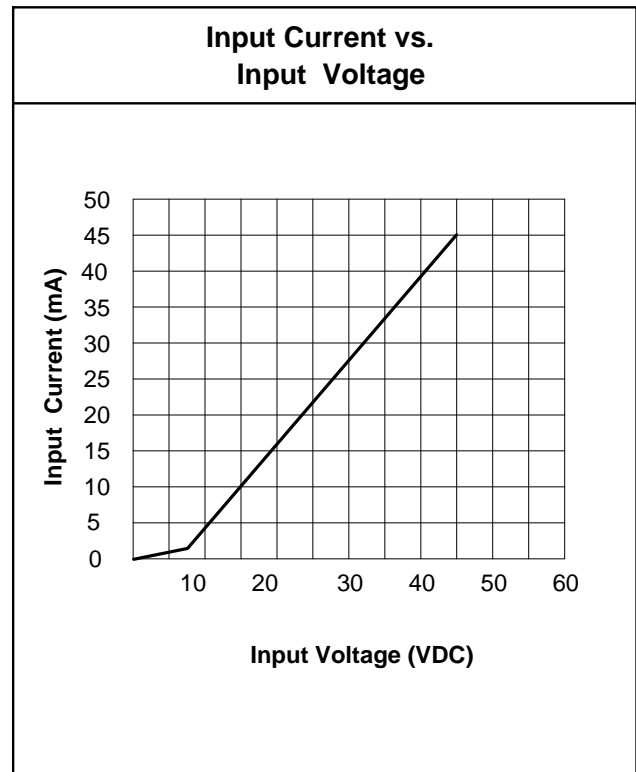
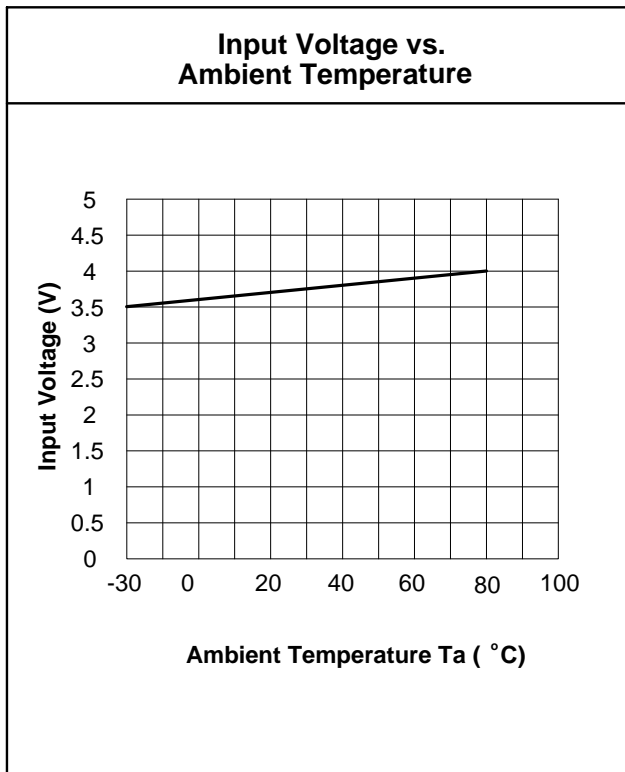
**Open Circuit Leak Current vs. Supply Voltage**



**RMS On-state Current vs. Case Temperature**



## 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**



3220 Commander Drive, Suite 102, Carrollton, Texas 75006  
Sales: (888)997-3933 Fax: (818) 342-5296 email: sales@pickercomponents.com URL: pickercomponents.com