Triac Output Solid State Relay — PCT

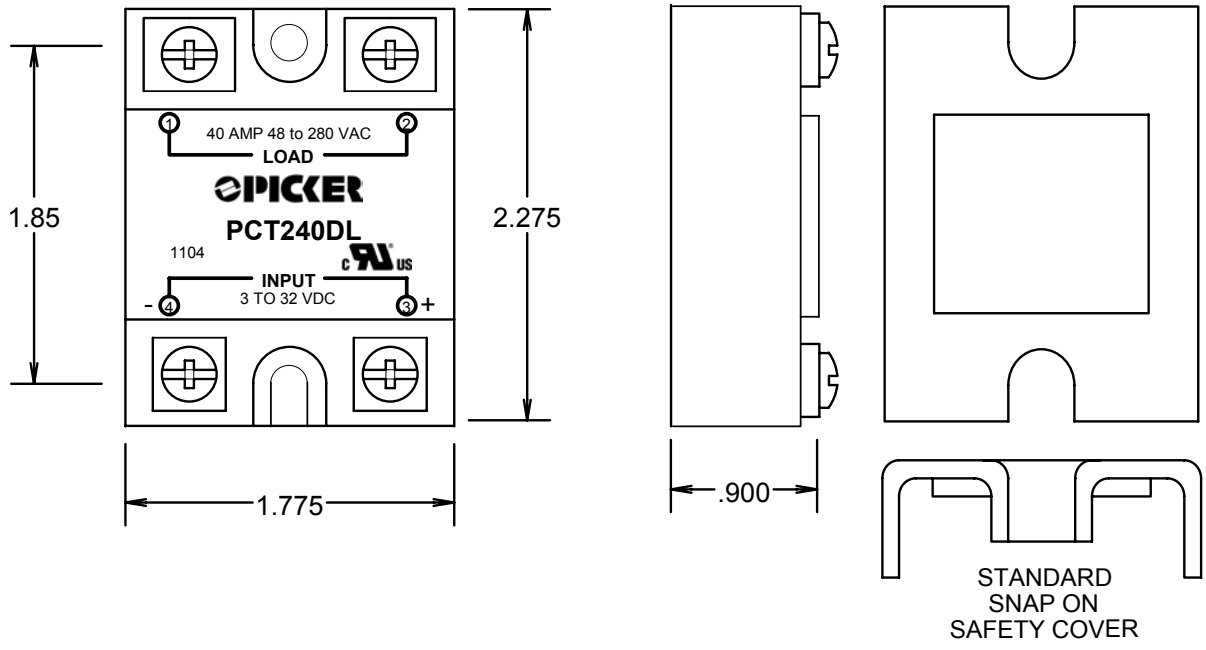


FEATURES

- Industry standard "Hockey Puck" design
- Solid Epoxy Body Resistant to the environment
- 4,000 Volt isolation between input and output
- 3 to 32 Volt DC or 90 to Volt AC input
- Completely sealed, Immersion cleanable
- 10 to 40 Amp Output
- 48 to 280, or 48 to 400 VAC Output
- Zero crossing or Random turn-on switching
- Built in snubber network
- Very high surge resistance
- Triac AC output
- Built in LED indicator

c UL us File # E86876

Dimensions in Inches



PICKER COMPONENTS
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Absolute Maximum Ratings at 25 Degrees C

	Parameter	Symbol	Rating	Unit
Input	Input signal voltage	V_{IN}	3-32 90-280	VDC VAC
Input	Drop out voltage	V_{do}	1 10	VDC VAC
Output	RMS on state current	I_T	10, 15, 20, 25 and 40	A rms
Output	Peak one cycle surge current	I_{surge}	10x I_T	A
Output	Repetitive peak off state voltage	V_{DRM}	600 for 240 800 for 380	V
Output	Operating frequency	f	47 - 70	Hz
Output	Critical rate of rise on state current	di/dt	50	A/ μ S
Output	Load supply voltage	V_{out}	48 to 400	Vrms AC
	Isolation voltage input to output	V_{iso}	4000	Vrms
	Operating temperature	T_{opr}	-30 - 80	℃
	Storage temperature	T_{stg}	-30 - 100	℃
	Soldering temperature 10 seconds	T_{sol}	260	℃

Electrical Characteristics at 25 Degrees C

	Parameter	Symbol	Conditions	Unit
Input	Pick up voltage	V_{pu}	It=1Arms	3 VDC MAX 90 VAC MAX
Input	Input current	I_{in}	Vin=4 - 32V	5 TO 25 mA
Output	On state voltage	V_T	It=1Arms	1.7V rms MAX
Output	Operating current	I_{op}	Vout=240 Vrms	50 mArms MIN
Output	Leakage current	I_{leak}	Vout=240 Vrms	10 mArms
Output	Critical rate of rise of off state voltage	dv/dt	See Note 1	500V/ μ S
Output	Zero cross voltage	V_{ox}	I_{in} =7mA	35 VAC MAX
Output	Load voltage rating	V_{out}	I_T =50mArms MIN	48 TO 400VAC
	Minimum trigger current	I_{FT}	V_{DRM} =600V	25 mA MAX
	Isolation resistance input to circuit	R_{iso}	DC 500V	10^{10} OHMS MIN
	RandomTurn on time DC Input	T_{on}	48 to 70Hz AC	1 ms
	Turn on time Zero Cross DC input	T_{on}	48 to 70Hz AC	1/2 cycle + 1ms
	Turn on time Zero Cross AC input	T_{on}	48 to 70Hz AC	20 ms
	Max Turn off time DC input	T_{off}	48 to 70Hz AC	1/2 cycle + 1ms
	Max Turn off time AC input	T_{off}	48 to 70Hz AC	40 ms

Ordering Example: PCT 2 50 A L -1

Model

Output Voltage Rating
2: 240 (48 to 280 VAC)
3: 380 (48 to 400 VAC)

Load Current
10: 10A, 15: 15A, 20: 20A, 25: 25A, 40: 40A

Input Type
D: 3 to 32 VDC, A1: 90 to 130 VAC, A2: 180 to 260

Indication
NIL: None, L: LED

Zero Cross Function
Nil: Zero Cross Turn On, -1: Random Turn On

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