



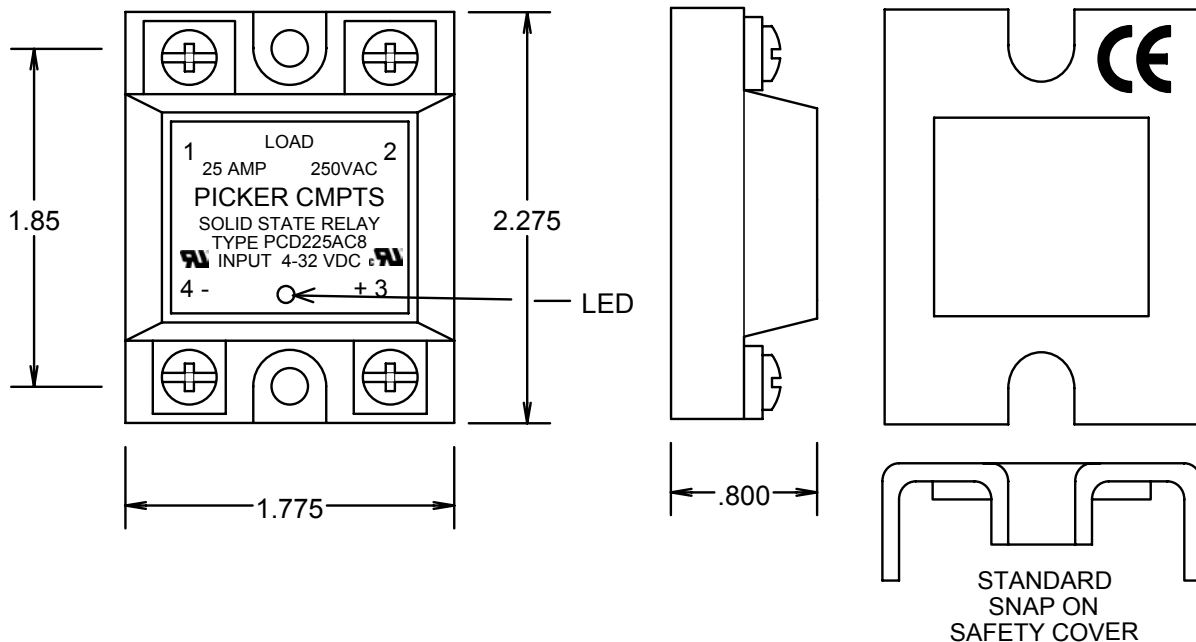
### FEATURES

- Industry standard "Hockey Puck" design
- Solid Epoxy Body Resistant to the environment
- 4,000 Volt isolation between input and output
- 4 to 32 Volt DC input
- Completely sealed, Immersion cleanable
- 10 to 40 Amp Output
- 50 to 250 or 50 to 480 Volt Output
- Zero crossing switching
- Built in snubber network
- Very high surge resistance
- Has the CE mark
- UL recognized and certified for Canada

 File # E86876

 Certified by a NRTL

### Dimensions in Inches



Absolute Maximum Ratings at 25 Degrees C				
Parameter		Symbol	Rating	Unit
Input	Input signal voltage	$V_{IN}$	4-32	V DC
	Drop out voltage	$V_{do}$	1	V DC
Output	RMS on state current	$I_T$	10, 15, 25, or 40	A rms
	Peak one cycle surge current	$I_{surge}$	$10 \times I_T$	A
	Repetitive peak off state voltage	$V_{DRM}$	600 *See note 2	V
	Operating frequency	$f$	47 - 70	Hz
	Critical rate of rise on state current	$di/dt$	50	A/ $\mu$ S
	Load supply voltage	$V_{out}$	250 *See Note 2	Vrms AC
Isolation voltage input to output		$V_{iso}$	4000	Vrms
Operating temperature		$T_{opr}$	-30 - 100	$^{\circ}$ C
Storage temperature		$T_{stg}$	-30 - 125	$^{\circ}$ C
Soldering temperature 10 seconds		$T_{sol}$	260	$^{\circ}$ 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	$I_{in}$	$V_{in}=4 - 32V$	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	$I_{leak}$	$V_{out}=240 V_{rms}$	3.5 TO 7 mA rms
	Critical rate of rise of off state voltage	$dv/dt$	See Note 1	50 TO 200V/ $\mu$ S
	Zero cross voltage	$V_{ox}$	$I_{in} = 7mA$	35 VAC MAX
	Load voltage rating	$V_{out}$	$I_T = 50mA_{rms} MIN$	50 TO 280VAC
Minimum trigger current		$I_{FT}$	$V_{DRM} = 600V$	25 mA MAX
Isolation resistance input to circuit		$R_{iso}$	DC 500V	$10^{10}$ OHMS MIN
Turn on time		$T_{on}$	60Hz AC	8.3 ms MAX
Turn off time		$T_{off}$	60Hz AC	8.3 ms MAX
Thermal resistance (between junction and case)		$R_{th(j-c)}$		1.3 $^{\circ}$ 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.

2. Model PCD425AC8-1 is rated 25 amps at 480 VAC. I surge is 250 amps and  $V_{DRM}$  is 1200 VOLTS.  $V_{out}$  is 480 VAC.

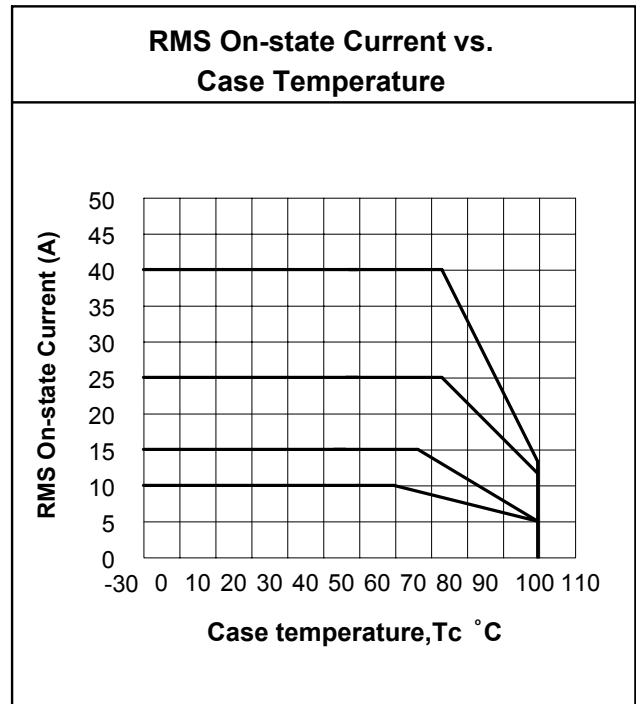
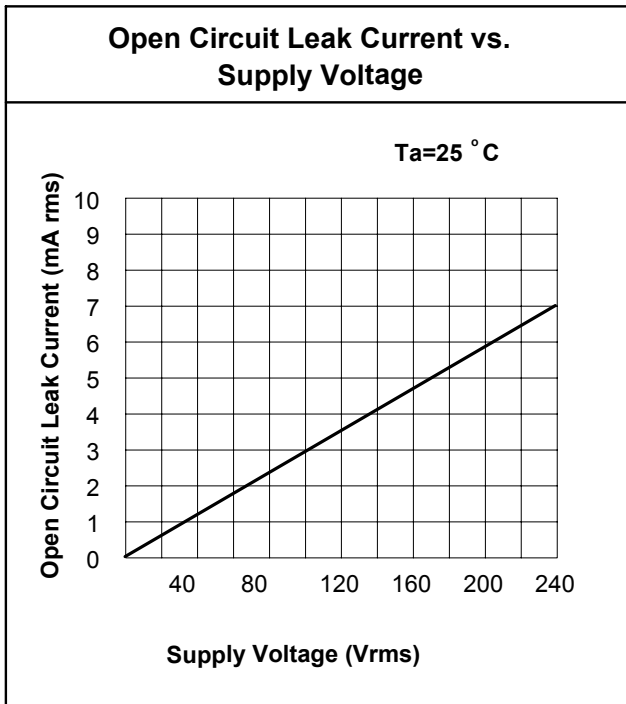
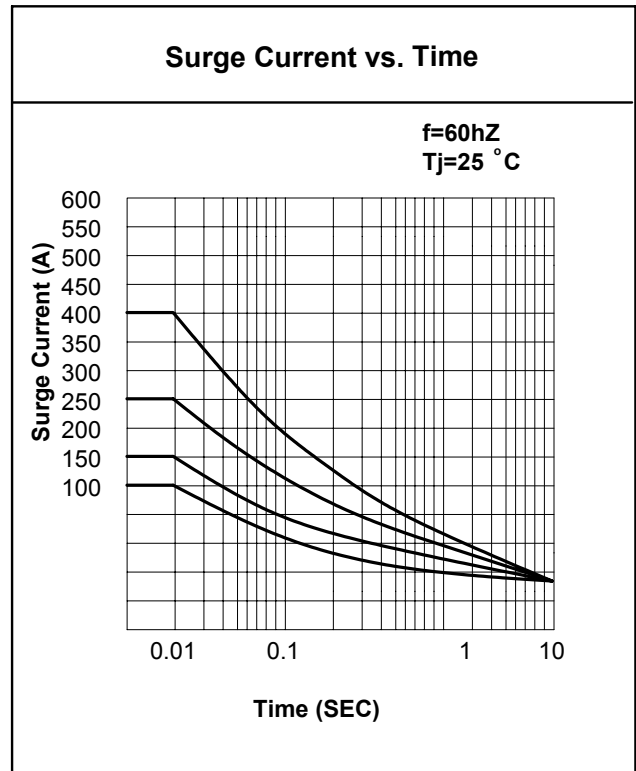
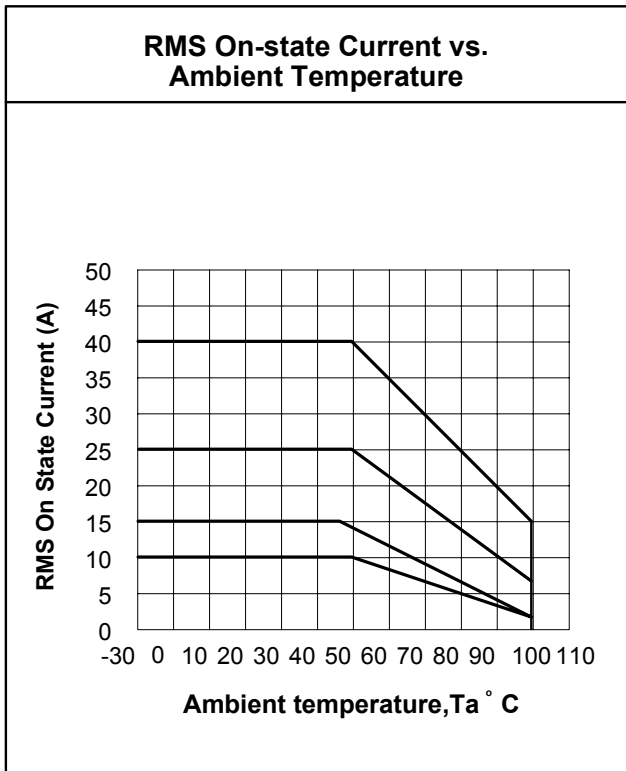
Model PCD440AC8-1 is rated 40 amps at 480 VAC. I surge is 400 amps and  $V_{DRM}$  is 1200 VOLTS.  $V_{out}$  is 480 VAC.



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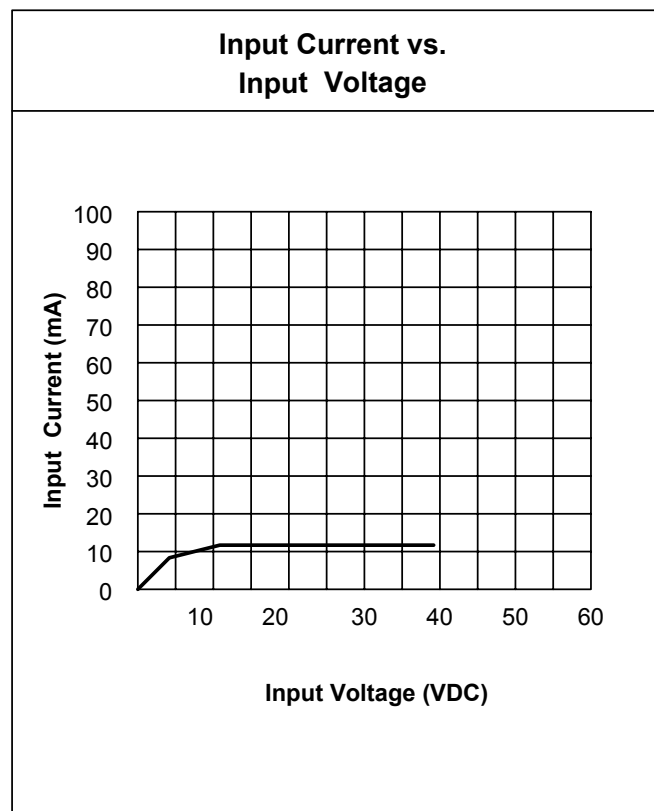
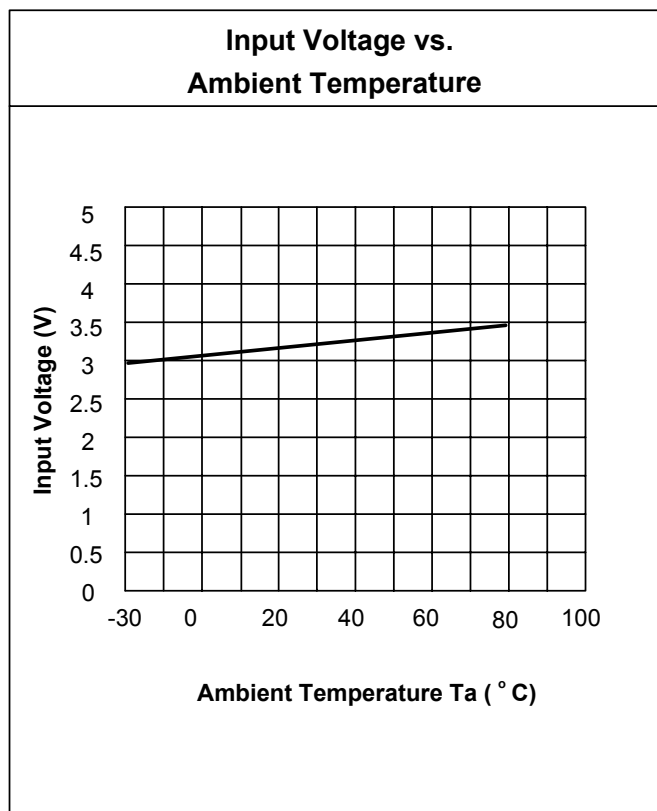
**CHARACTERISTIC CURVES**



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## CHARACTERISTIC CURVES

**PART NUMBER****CURRENT RATING****AC VOLTAGE RATING**

PCD210AC8

10 AMPS

250 VAC

PCD215AC8

15 AMPS

250 VAC

PCD225AC8

25 AMPS

250 VAC

PCD240AC8

40 AMPS

250 VAC

PCD425AC8

25 AMPS

480 VAC

PCD440AC8

40 AMPS

480 VAC



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