



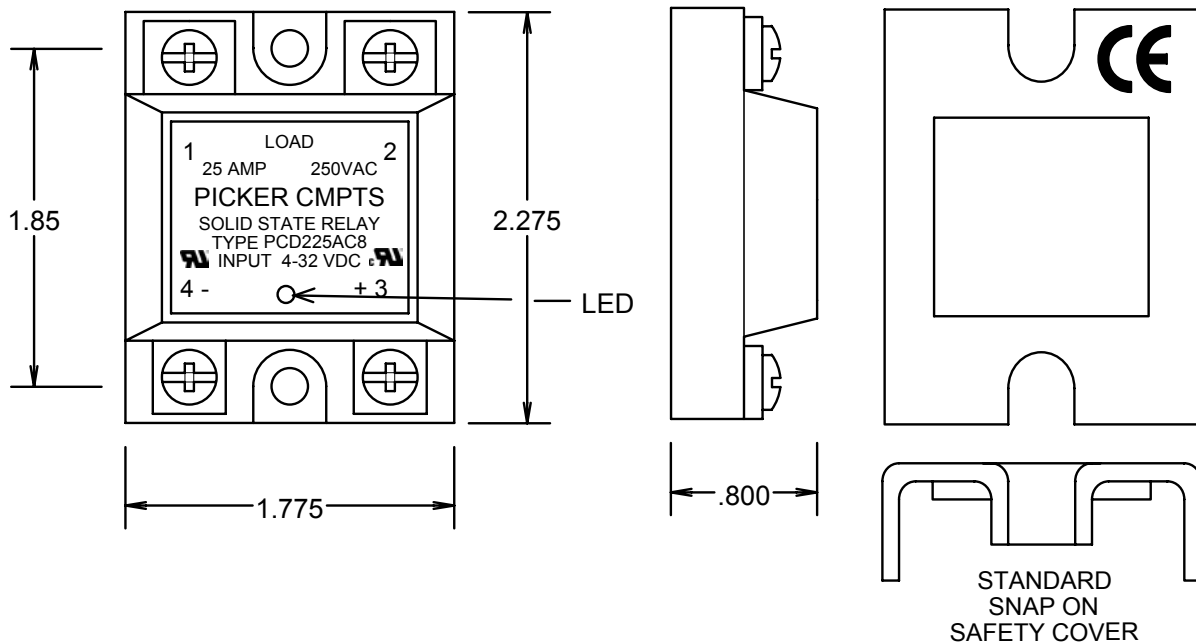
FEATURES

- 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/ μ 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/ μ 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.

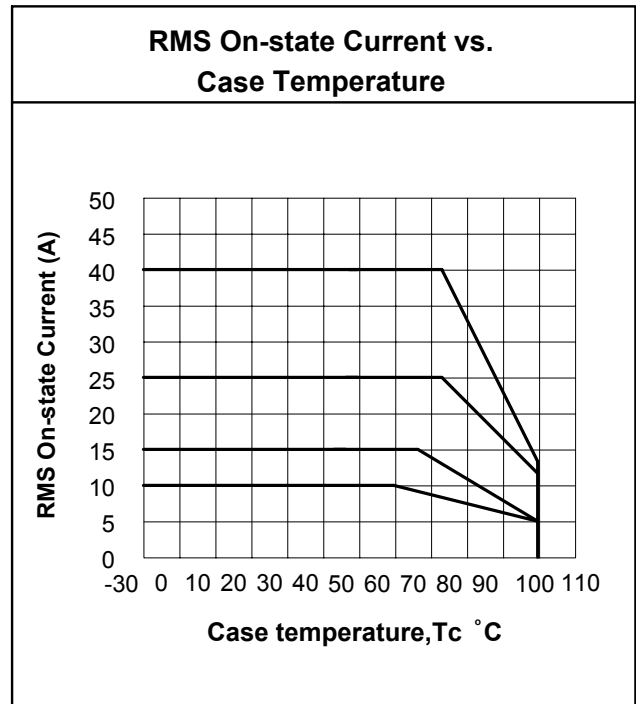
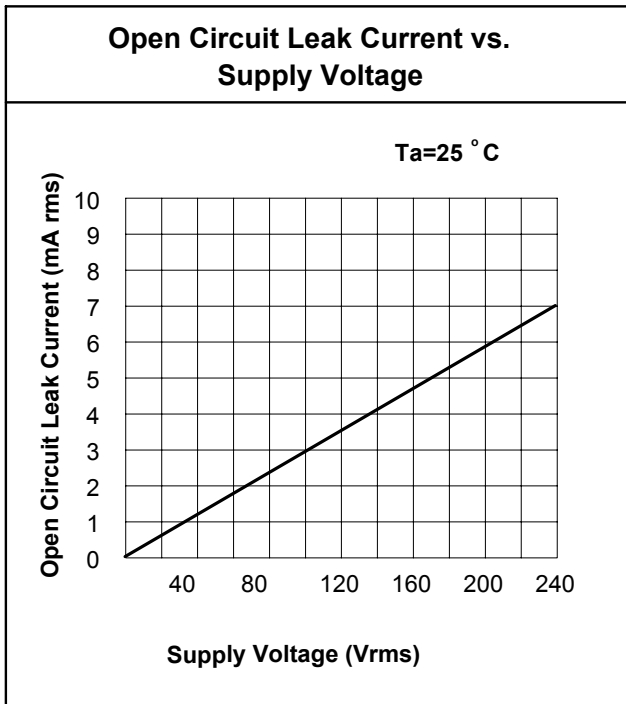
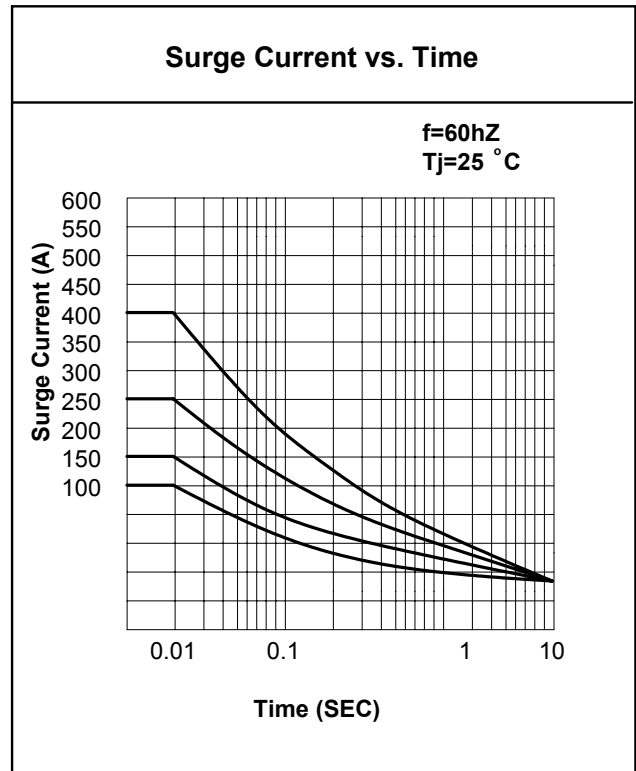
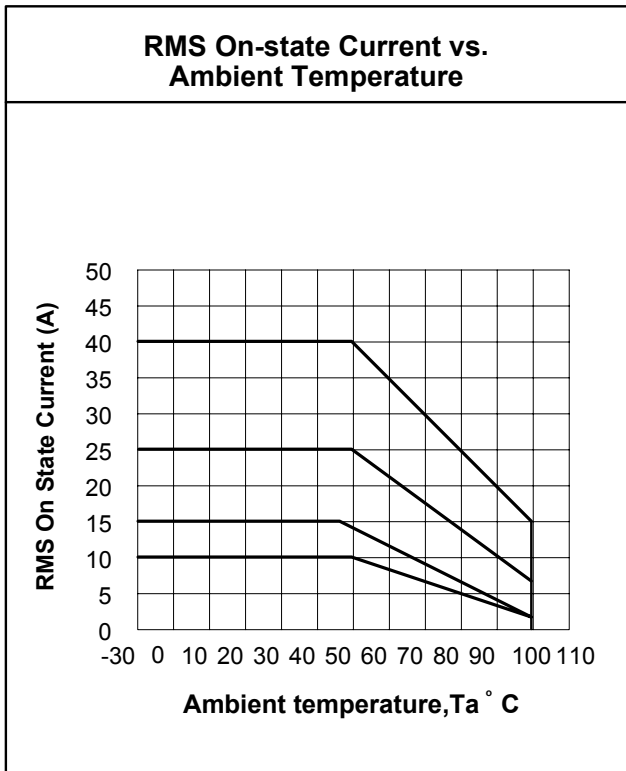
2. Model PCD425AC8-1 is rated 25 amps at 480 VAC. I_{surge} is 250 amps and V_{DRM} is 1200 VOLTS. V_{out} is 480 VAC.

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.

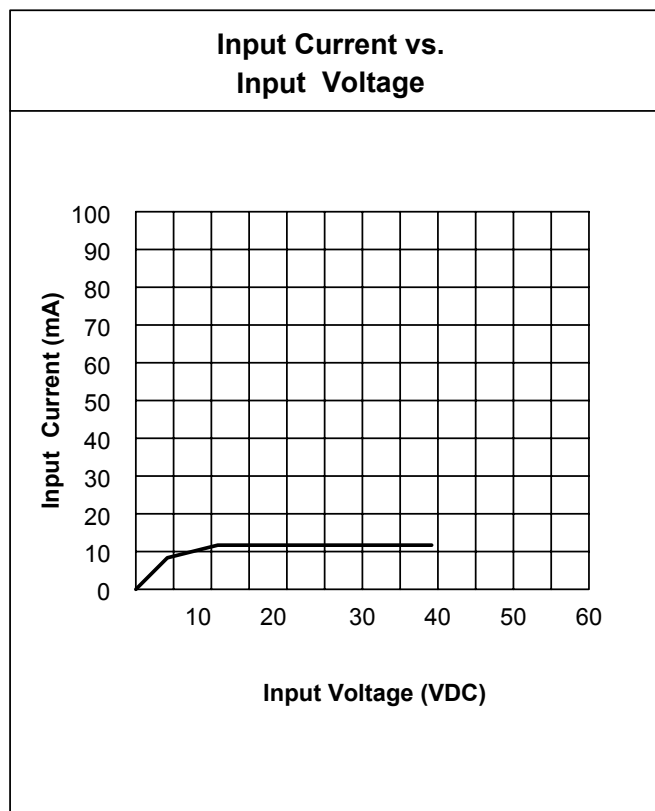
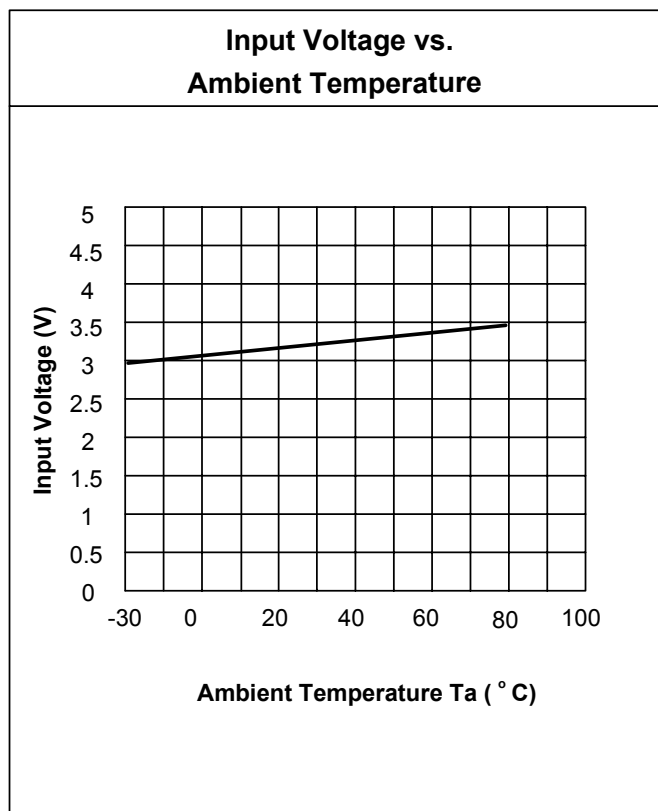


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CHARACTERISTIC CURVES



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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