
AC SURGE PROTECTION DEVICE

General Description

PL280AC-05 series is a surge protection device to provide AC Power Line surge protection capability. It is designed by MOV/GDT network to guarantee the safety of your device.

Features

- ◆ L-N Protection
- ◆ L/N-PE Protection
- ◆ AC Power Line Application
- ◆ IEC 61000-4-5
- ◆ IEC 61643-11

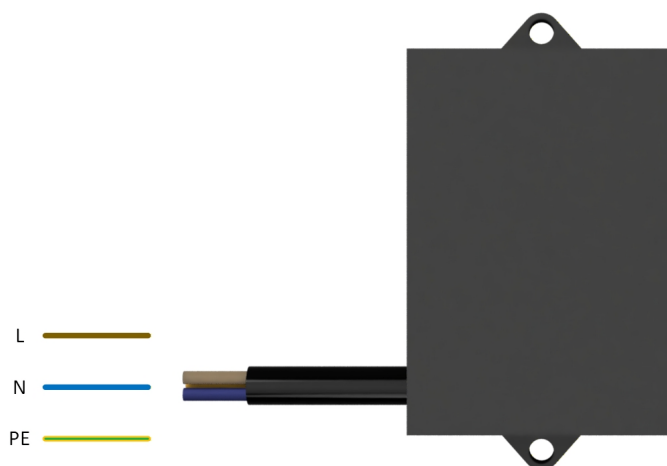


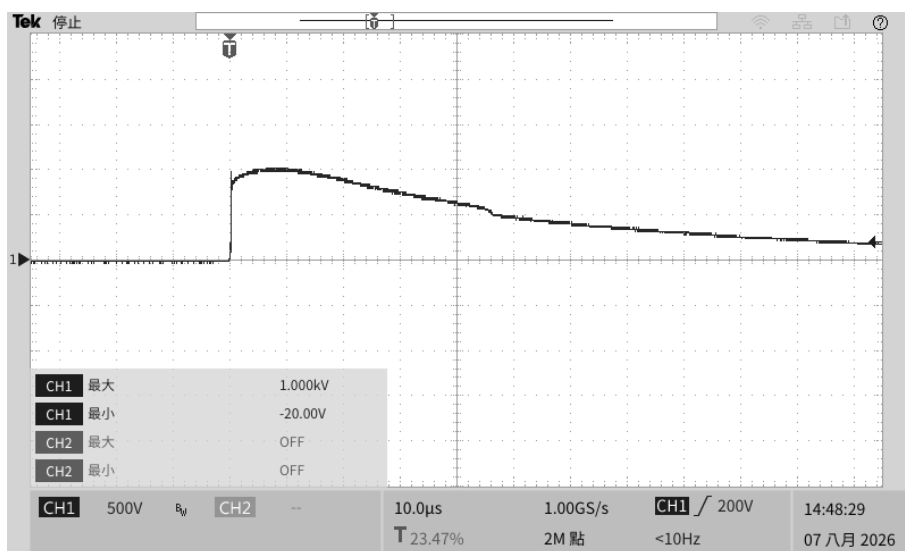
Fig.1 Appearance

DEVICE CHARACTERISTICS

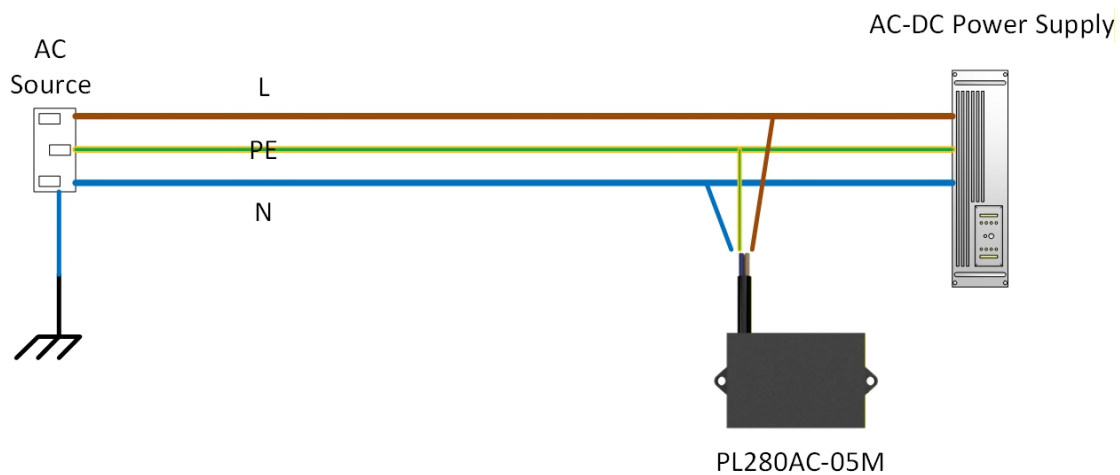
Electrical Characteristics			
Parameter	Symbol	Value	Unit
Max Discharge Current ^{Note (1)}	I_{NMAX}	10	KA
Nominal Common Mode Discharge Current	I_{NCM}	5	KA
Nominal Differential Mode Discharge Current	I_{NDM}	5	KA
Maximum Operation AC Voltage	V_{AC}	280	VAC
Maximum Operation DC Voltage	V_{DC}	380	VDC
Maximum Operation AC Current	I_{AC}	10	A
Minimum DC Breakdown Voltage (L-N)	V_{BRD}	420	V
Minimum DC Breakdown Voltage (L/N-PE)	V_{BRC}	420	V
Common Mode Clamping Voltage ^{Note (2)}	V_{CCM}	2.5	KV
Differential Mode Clamping Voltage ^{Note (3)}	V_{CDM}	1.5	KV
Response Time	-	10	ns
Operation Temperature	T_J	-40 ~ 85	°C
Note: (1) 8/20us current wave, single impulse (2) Measured at 1.2/50us combination wave (3) Measured at 1.2/50us combination wave			

APPLICATION AND PERFORMANCE

Differential Clamping Waveform

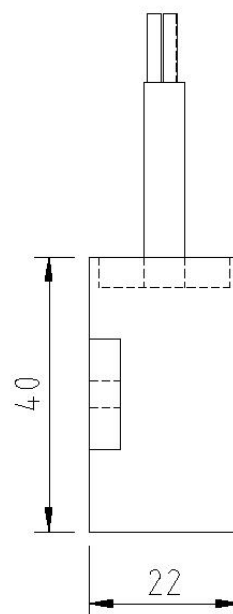
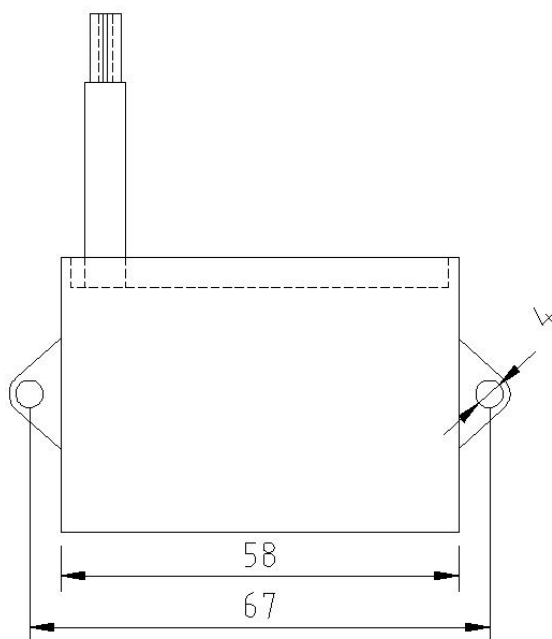
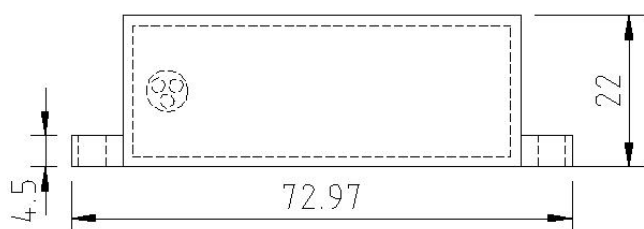


Connection for Effective Protection



DEVICE OUTLINE

Dimension : mm



Revision History		Description	
v2.0		Re-organize datasheet layout	