

HC-PRZ



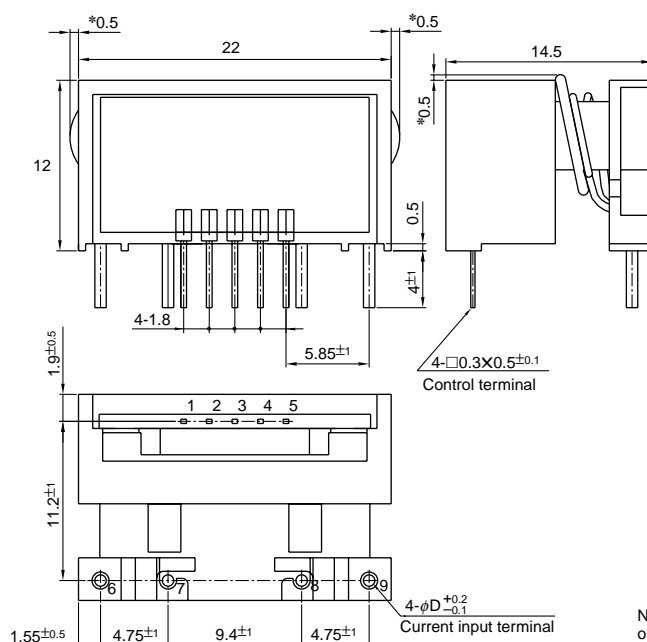
- Well isolated for European Standards
- Rated current 3A ~ 20A
- Compact design : height has been kept down to 12.0mm
- Single-power supplies also available
- Two circuits can be measured at the same time.

Applications

Inverters, servo drivers, NC machine tools

Dimensions

(mm)



| Size of primary winding | (Width D) |
|-------------------------|------------|
| $\phi 0.5$ | $\phi 0.5$ |
| $\phi 0.6$ | $\phi 0.6$ |
| $\phi 0.8$ | $\phi 0.8$ |
| $\phi 0.9$ | $\phi 0.9$ |

- Terminal No.
- 1... (+) terminal
 - 2... (-) terminal
 - 3... Output1
 - 4... Output2
 - 5... GND
 - 6... (+) Input1
 - 7... (-) Input1
 - 8... (+) Input2
 - 9... (-) Input2

Weight : 5g

Note) The dimensions marked with * apply only for the $\phi 0.9, \phi 0.5$ (10T, 12T) primary winding

Specification

Ta=25°C

| Type | HC-PRZ03V4B15U | HC-PRZ05V4B15U | HC-PRZ10V4B15U | HC-PRZ20V4B15U |
|------------------------------|---|----------------|----------------|----------------|
| Rated current [If] | ±3A | ±5A | ±10A | ±20A |
| Saturation current [Is] | ±9A | ±15A | ±30A | ±45A |
| Linearity limits | 0~±7.5A | 0~±12.5A | 0~±25A | 0~±37.5A |
| Size of primary winding | φ0.5 | φ0.5 | φ0.8 | φ0.8 |
| Turns | 10 | 6 | 3 | 2 |
| Rated output [Vh] | ±4V±1.5% (RL=10kΩ)(including the residual output) | | | |
| Residual output [Vo] | Within ±100mV | | | |
| Output linearity | Within ±1% | | | |
| Response time | Within 10μs (at di/dt=If/μs) | | | |
| Response performance | Within 10% | | | |
| Hysteresis voltage range | Within 120mV | | | |
| Output Temp. Coef. | Within ±0.1%/°C | | | |
| Residual output Temp. Coef. | Within ±3mV/°C | | | |
| Control power supply | ±15V±5% | | | |
| Consumption current | Within 40mA | | | |
| Operating Temp. | -10°C~+80°C | | | |
| Storage Temp. | -15°C~+85°C | | | |
| Dielectric withstand voltage | 2500V AC 50/60Hz 1minute | | | |
| Insulation resistance | Not less than 500MΩ 500V DC | | | |

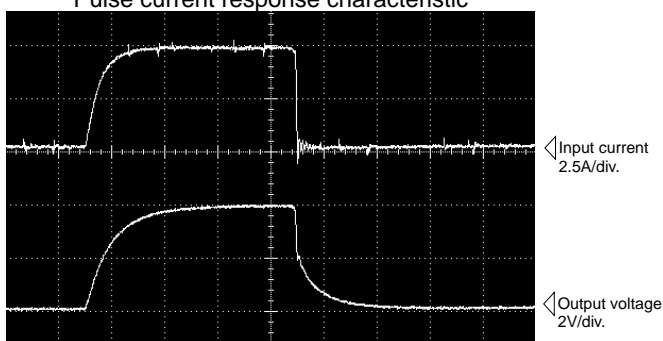
Note1) The indicated residual voltage is the one after the core hysteresis is removed.

Note2) For continuously flowing DC currents, see the principal characteristics marked by an asterisk (※) on page 1-5.

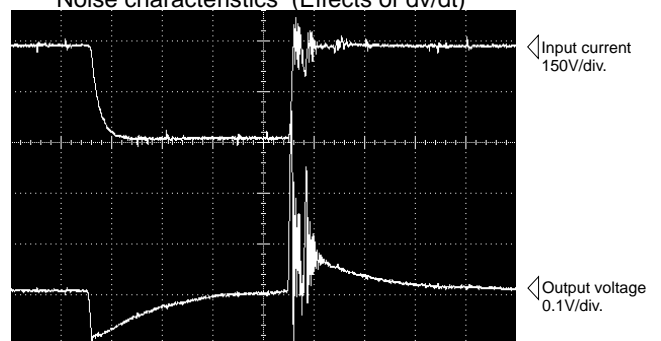
Characteristics chart

HC-PRZ05V4B15U

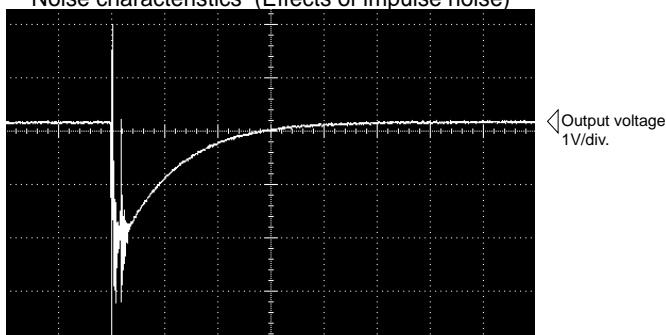
Pulse current response characteristic



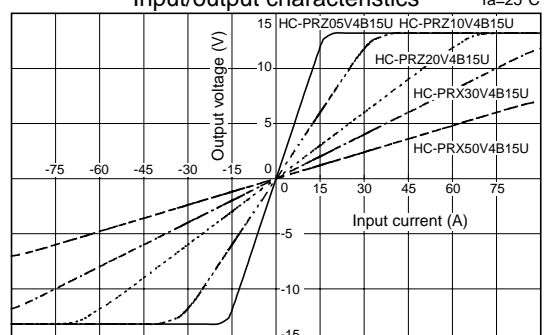
Noise characteristics (Effects of dv/dt)



Noise characteristics (Effects of impulse noise)



Input/output characteristics



Note : The mark "◁" means 0V or 0A.