HS–PHB

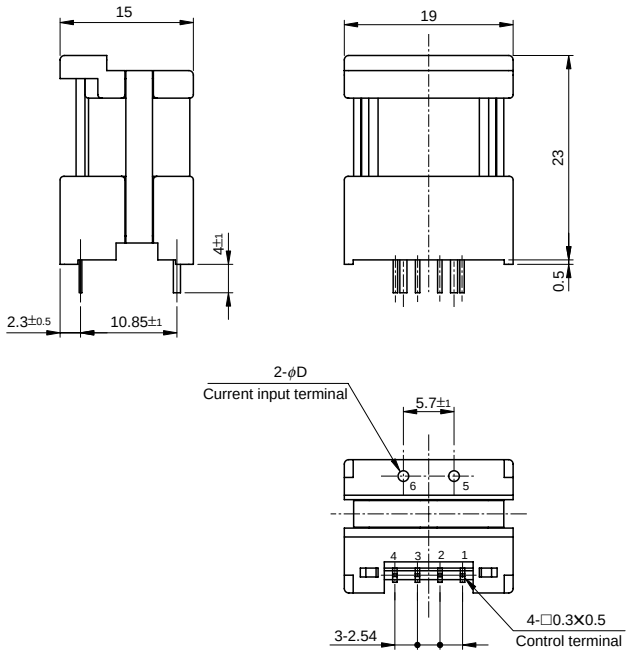
- Rated current ····· 35A ~ 50A
- Realized high precision and compact size
- Superior in response, linearity and temperature characteristics

Applications

Inverters, servo drivers, power supply equipment, NC machine tools

Dimensions

(mm)



Dimensions of Current Input Terminals

Size of primary winding	Width D
ϕ0.8	
ϕ1.0	
ϕ1.3	
□1.2X2	

Terminal No.
1···(–) terminal
2···GND
3···(+) terminal
4···Output
5···(+) input
6···(–) input

Specification

Ta=25°C

	Voltage output type		
Type	HS-PHB35V4B15	HS-PHB40V4B15	HS-PHB50V4B15
Rated current [If]	±35A	±40A	±50A
Continuously flowing DC current	±25.2A	±28.8A	±36A
Saturation current [Is]	±87.5A	±100A	±125A
Linearity limits	0~±70A	0~±80A	0~±100A
Size of primary winding	ϕ1.3	□1.2×2	□1.2×2
Turns	1	1	1
Rated output	±4V±1.5% (RL=10kΩ)		
Residual output	Within ±30mV		
Output linearity	Within ±0.5%		
Response time	Within 3μs (at di/dt=If/μs)		
Response performance	Within 10%		
Hysteresis voltage range	Within 50mV		
Output Temp. Coef.	Within ±0.04%/°C		
Residual output Temp. Coef.	Within ±1mV/°C		
Control power supply	±15V±5%		
Consumption current	20mA+(Input current × N)/1270		
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		

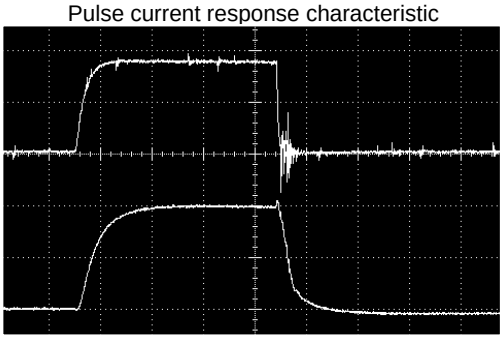
Note1) The indicated residual voltage is the one after the core hysteresis is removed.
Note2) For continuously flowing DC currents, see the principal characteristics marked by an asterisk (※) on page 1-5.

Characteristics chart

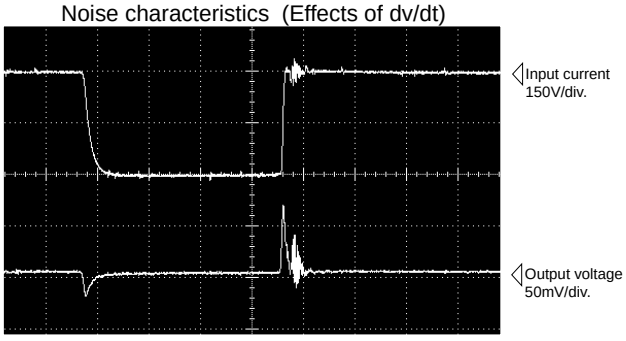
HS-PHB35V4B15 (RL=10KΩ)

Time base : 5μs/div.

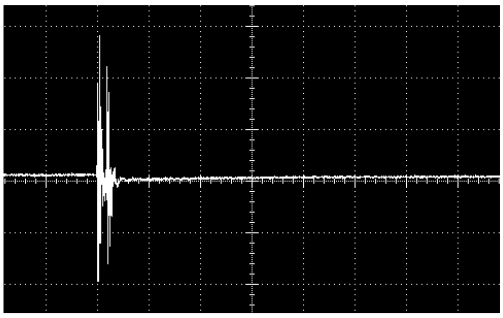
Pulse current response characteristic



Noise characteristics (Effects of dv/dt)

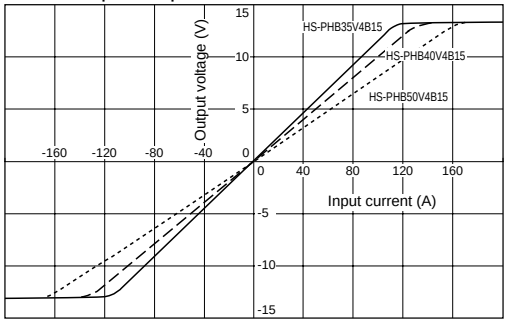


Noise characteristics (Effects of impulse noise)



Input/output characteristics

Ta=25°C



Note : The mark "◁" means 0V or 0A.