

HM-D



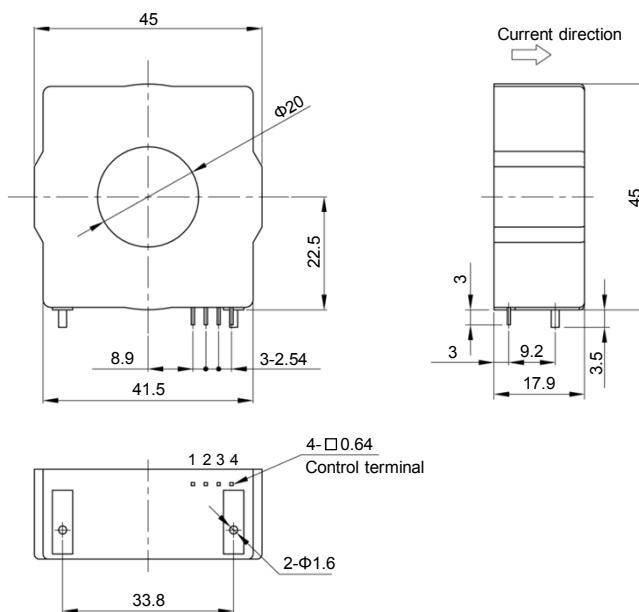
- Rated current 100A ~ 200A
- Optimum for high precision current detection application for power conditioning systems etc.
- Small offset drift
- Excellent output linearity
- Fast response speed

Applications

Power conditioning systems, Inverters, Servo drivers, Battery chargers

Dimensions

(mm)



Terminal No. 1 ... (+) terminal
2 ... (-) terminal
3 ... NC
4 ... Output

Weight : 31g

General tolerance: ±0.5

Specification

Ta=25°C

Type	Current output type	
	HM-D100A003125B15	HM-D200A00625B15
Rated current [If]	±100A	±200A
Continuously flowing DC current	±100A	±200A (RL=30Ω)
Saturation current [Is]	±220A	±320A
Linearity limits	0~±200A	0~±300A
Rated output [Ih]	+If	I0+31.25mA±0.5%
	-If	I0-31.25mA±0.5%
Residual output [I0]	Within ±0.01mA	
Load resistance range [RL]	10~70Ω	10~30Ω
Output linearity	Within ±0.1%	
Second coil resistance	Approx. 100Ω	
Response time	Within 1μs (at di/dt=100A/μs)	
Response performance	Within 10%	
Hysteresis voltage range	Within 0.05mA	
Output Temp. Coef.	Within ±0.003%/°C	
Residual output Temp. Coef.	Within ±1μA/°C	
Control power supply	±15V±5%	
Consumption current	35mA+(Input current/3200)	
Operating Temp.	-40°C~+80°C	
Storage Temp.	-40°C~+85°C	
Dielectric withstand voltage	3500V AC 50/60Hz 1minute	
Insulation resistance	Not less than 500MΩ 500V DC	

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

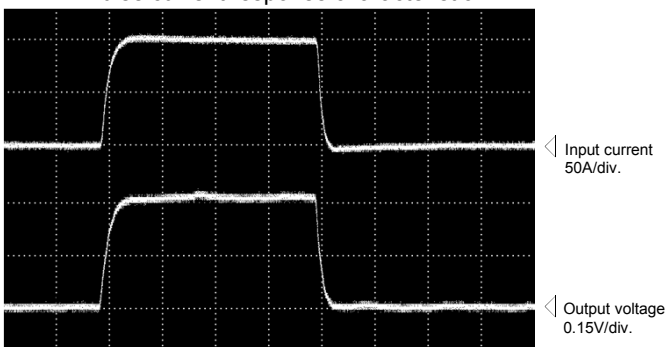
Note2) Energization time of continuous live DC current x150% shall be within 1 minute.

Characteristics chart

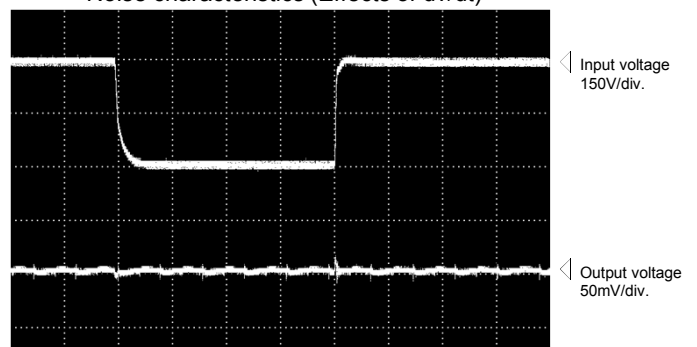
HM-D200A00625B15 (RL=10Ω)

Time base: 5μs/div.

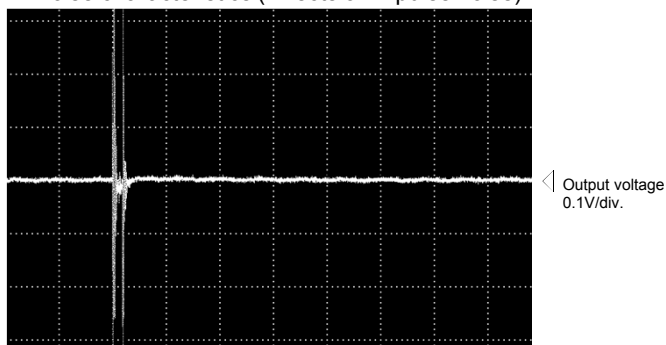
Pulse current response characteristic



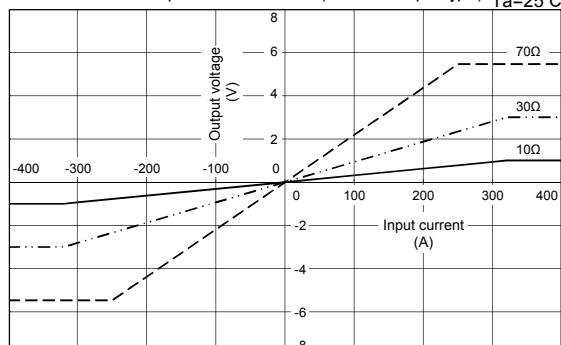
Noise characteristics (Effects of dv/dt)



Noise characteristics (Effects of impulse noise)



Load resistance-output characteristics (Current output type) Ta=25°C



Note: The marks "◁" means 0V or 0A.