

HM-A series

Large-sized, medium-capacity type Bolt on type

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HM-A



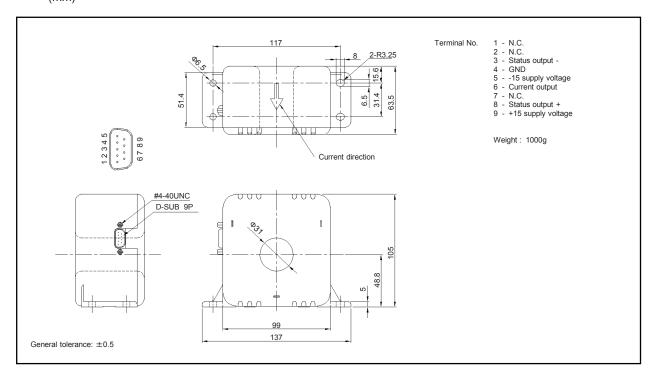
- Rated current 300A ~ 600A
- High accuracy current sensor using fluxgate technology
- Very low output noise

Applications

High precision power supply, Medical equipment, High precision inverter, Test equipment

Dimensions

(mm)



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Specification Ta=25°C

		Current output type	
Туре		HM-A300A02B15B	HM-A600A04B15B
Rated current [If]		±300A	±600A
Continuously flowing DC current		±600A	±600A
Min.overload trip current [Is] (Note3)		$\geqq \pm 750 \text{A } (\text{RL} \leqq 5\Omega)$ $\geqq \pm 850 \text{A } (\text{RL} \leqq 2.5\Omega)$	
Linearity limits (Note4)		$0 \sim \pm 650 A (RL \leq 5\Omega)$ $0 \sim \pm 750 A (RL \leq 2.5\Omega)$	
Rated output [Ih]	+lf	I0+200mA±300ppm	I0+400mA±300ppm
Nated output [iii]	-If	I0-200mA±300ppm	I0-400mA±300ppm
Residual output [I0]		Within ±10μA	
Output linearity		Within ±10ppm	
Second coil resistance		Approx. 16Ω	
Response time		Within 1µs (at di/dt=100A/µs)	
Response performance		Within 35%	
Hysteresis voltage range		Within 15μA	
Output Temp. Coef.		Within ±5ppm/°C	
Residual output Temp. Coef.		Within ±0.2μA/°C	
Control power supply		±15V±5%	
Consumption current		250mA+(Input current/1500)	
Operating Temp.		+10°C~+50°C	
Storage Temp.		0°C~+60°C	
Operation status(Photocupuler output) (Note5)		Open collector (Imax=6mA Vmax=+15V), Active low (Normal operation)	
Dielectric withstand voltage		2500V 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 x110% shall be within 1 minute.

Note3) If the current is higher than this, the inside circuit will shut down and the output will be almost zero.

Note4) Denotes the range of the input current value for which the output is within 0.1% of the estimate output voltage.

Note5) It is a signal that indicates the inside circuit operation; it indicates Lo level under normal operation, and Hi level when the inner circuit is shut down because of an

Characteristics chart

HM-A600A04B15B (RL=5 Ω)

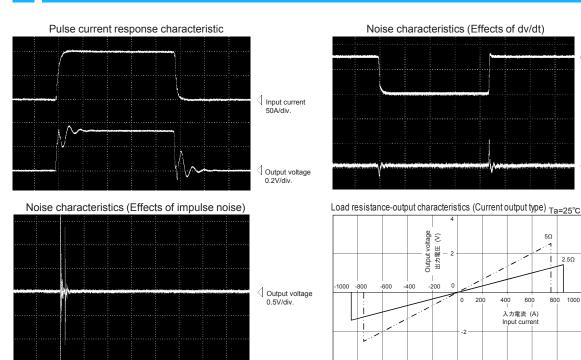
Time base: 5µs/div.

Input voltage

Output voltage

50mV/div.

2.5Ω



Note: The marks " \quad " means 0V or 0A.