

HC-MSN



- 定格電流値 … 300A ~ 3000A  
Rated current … 300A ~ 3000A
- 耐ノイズ特性に優れています  
Superior noise-resistance
- ネジ式制御端子仕様の製作も可能です  
Screw type control terminals also available
- 単電源仕様の製作も可能です  
Single-power supplies also available

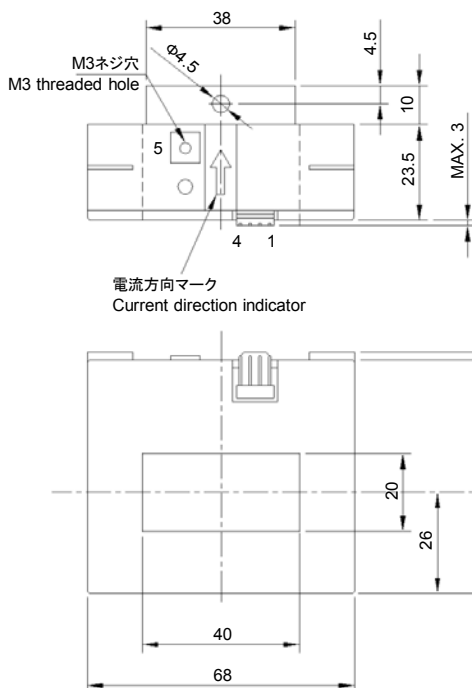
用途 Applications

インバータ装置, 電源装置, UPS, NC工作機, 溶接機

Inverters, Power supply equipment, Uninterruptible power supply (UPS), NC machine tools, Welders

外形寸法図 Dimensions

(mm)



適合コネクタハウジング Supported connector housing  
5051-04 (MOLEX)

- |              |             |              |
|--------------|-------------|--------------|
| 端子番号         | 1 … 制御電源(+) | (+) terminal |
| Terminal No. | 2 … 制御電源(-) | (-) terminal |
|              | 3 … 出力      | Output       |
|              | 4 … GND     |              |
|              | 5 … シールド    | Shield       |

質量 Weight: 200g

一般公差: ±0.5  
General tolerance: ±0.5

電気特性 Specification

Ta=25°C

形名 (Type)	HC-MSN300V4B15	HC-MSN600V4B15	HC-MSNE10V4B15	HC-MSNE15V4B15	HC-MSNE30V4B15
定格電流 (Rated current) [If]	±300A	±600A	±1000A	±1500A	±3000A
飽和電流 (Saturation current) [Is]	±900A	±1200A	±2400A	±2400A	±5000A
直線性範囲 (Linearity limits)	0~±900A	0~±1000A	0~±2100A	0~±2100A	0~±4500A
定格出力 (Rated output) [Vh]	±4V±1%				±4V±2%
残留出力 (Residual output) [V0]	Within ±30mV				
直線性 (Output linearity)	Within ±1%				
応答速度 (Response time)	Within 10μs (at di/dt=100A/μs)				
過渡特性 (Response performance)	Within 10%				
ヒステリシス巾 (Hysteresis voltage range)	Within 30mV				
出力温度特性 (Output Temp. Coef.)	Within ±0.1%/°C				
残留出力温度特性 (Residual output Temp. Coef.)	Within ±1mV/°C				
制御電源 (Control power supply)	±15V±5%				
消費電流 (Consumption current)	Within 30mA		Within 50mA		
使用温度範囲 (Operating Temp.)	-10°C~+80°C				
保存温度範囲 (Storage Temp.)	-15°C~+85°C				
耐電圧 (Dielectric withstand voltage)	2500V AC 50/60Hz 1minute				
絶縁抵抗 (Insulation resistance)	Not less than 500MΩ 500V DC				

Note1) 定格出力値は無負荷時の値です。

The indicated rated output is the one when no load is applied.

Note2) 残留出力値はコアヒステリシス除去後の値です。

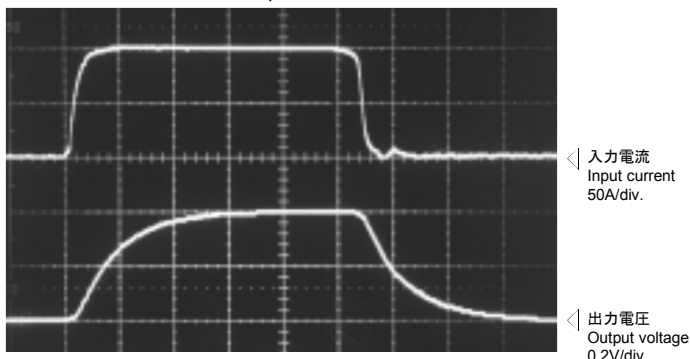
The indicated residual output is the one after the core hysteresis is removed.

特性図 Characteristics chart

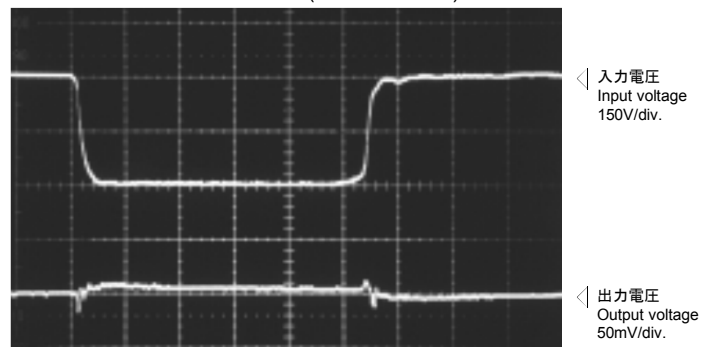
HC-MSNE10V4B15

時間軸 Time base: 5μs/div.

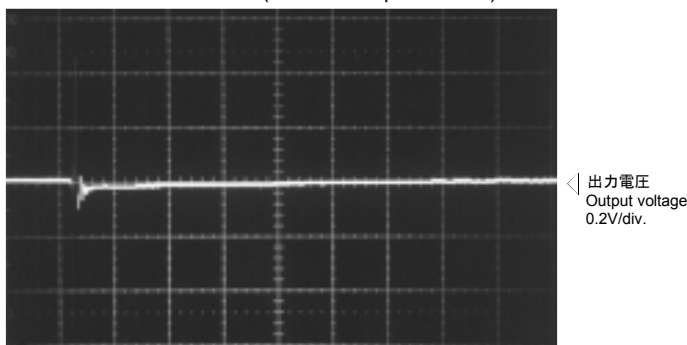
パルス電流応答特性  
Pulse current response characteristic



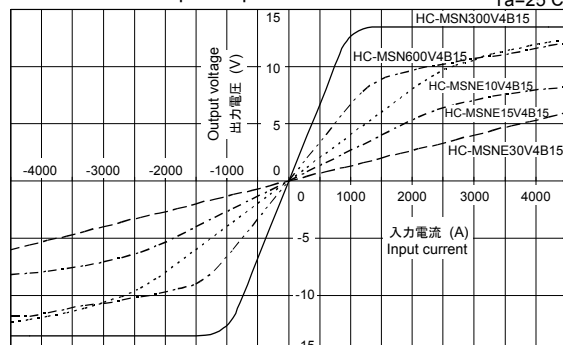
ノイズ特性 (dv/dtの影響)  
Noise characteristics (Effects of dv/dt)



ノイズ特性 (インパルスノイズの影響)  
Noise characteristics (Effects of impulse noise)



入-出力特性  
Input/output characteristics



注: "◀" は0Vまたは、0Aを示します。 The marks "◀" means 0V or 0A.