

Hall Effect Current Sensors S26P200D15Y



Features:

- Closed Loop type
- Current or voltage output
- Conversion ratio $K_N = 1:2000$
- Printed circuit board mounting
- Aperture
- Insulated plastic case according to UL94V0
- UL Recognition

Advantages:

- Excellent accuracy and linearity
- Low temperature drift
- Wide frequency bandwidth
- No insertion loss
- High Immunity to external interferences
- Optimised response time
- Current overload capability

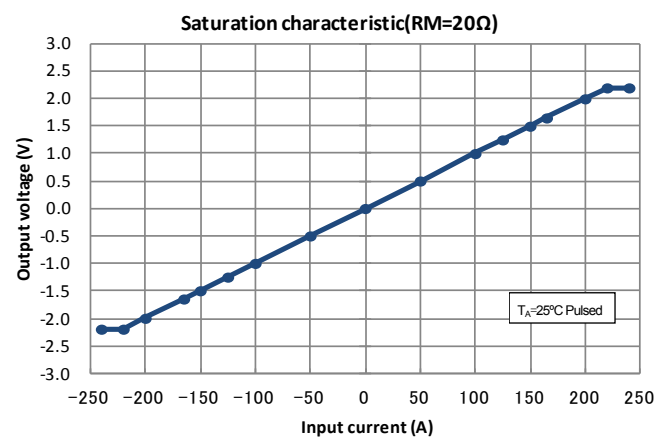
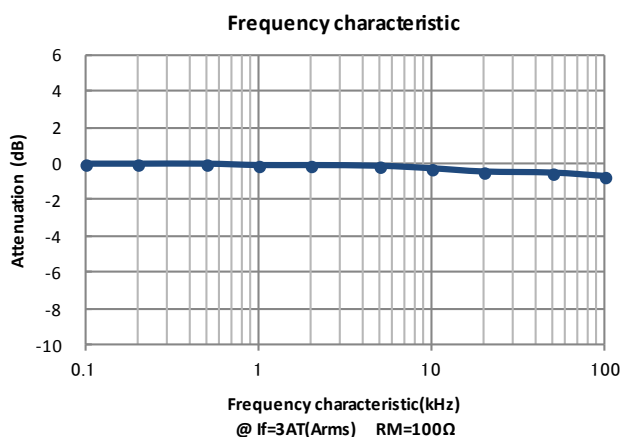
 $T_A=25^\circ\text{C}, V_{CC}=\pm 15\text{V}$

Specifications

| Parameters | Symbol | S26P200D15Y | |
|---|--------------|--|---|
| Primary nominal current | I_f | 200A | 300A |
| Maximum current ¹ (at 85°C) | I_{fmax} | $\pm 350\text{A}$ (at $R_M \leq 5\Omega$) | |
| Measuring resistance (at 85°C) | R_M | 0Ω ~ 26Ω (at $V_{CC} = \pm 12\text{V}$) 0Ω ~ 56Ω (at $V_{CC} = \pm 15\text{V}$) | 0Ω ~ 4Ω (at $V_{CC} = \pm 12\text{V}$) ² 0Ω ~ 8Ω (at $V_{CC} = \pm 15\text{V}$) |
| Conversion Ratio | K_N | 1 : 2000 | |
| Rated output current | I_o | 100mA | 150mA |
| Output current accuracy ³ (at I_f) | X | $I_o \pm 0.4\%$ | |
| Offset current ⁴ (at $I_f=0\text{A}$) | I_{of} | $\leq \pm 0.2\text{mA}$ | |
| Output linearity ³ (0A ~ I_f) | ϵ_L | $\leq \pm 0.15\%$ (at I_f) | |
| Power supply voltage ¹ | V_{CC} | $\pm 12\text{V} \dots \pm 15\text{V} \pm 5\%$ | |
| Consumption current | I_{CC} | $\leq \pm 16\text{mA}$ (Output current is not included) | |
| Response time ⁵ | t_r | $\leq 1.0\mu\text{s}$ (at $di/dt = 100\text{A} / \mu\text{s}$) | |
| Thermal drift of gain ⁶ | T_{clo} | $\leq \pm 0.01\% / ^\circ\text{C}$ | |
| Thermal drift of offset current | T_{clof} | $\leq \pm 0.5\text{mA max}$ (at $T_A = -40^\circ\text{C} \leftrightarrow +85^\circ\text{C}$) | |
| Hysteresis error | I_{oH} | $\leq 0.3\text{mA}$ (@ $I_f=0\text{A} \rightarrow I_f \rightarrow I_f=0\text{A}$) | |
| Insulation voltage | V_d | AC 3000V, for 1minute (sensing current 0.5mA), inside of through hole \leftrightarrow terminal | |
| Insulation resistance | R_{IS} | $\geq 500\text{M}\Omega$ (@ DC 500V), inside of through hole \leftrightarrow terminal | |
| Secondary coil resistance | R_s | 60Ω (at $T_A = 70^\circ\text{C}$), 65Ω (at $T_A = 85^\circ\text{C}$) | |
| Ambient operation temperature | T_A | $-40^\circ\text{C} \sim +85^\circ\text{C}$ | |
| Ambient storage temperature | T_s | $-40^\circ\text{C} \sim +90^\circ\text{C}$ | |

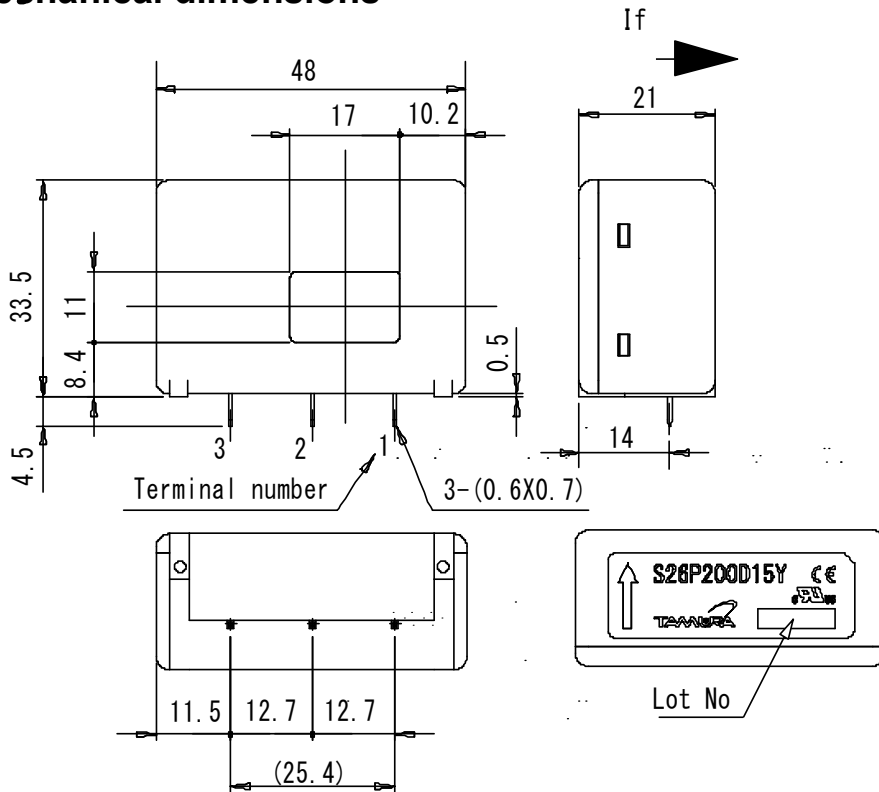
¹ Maximum current is restricted by V_{CC} — ² $I_f = 250\text{A}$ — ³ Without offset current — ⁴ After removal of core hysteresis — ⁵ Time between 90% input current full scale and 90% of sensor output full scale — ⁶ Without Thermal drift of offset current

Electrical Performances



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Mechanical dimensions



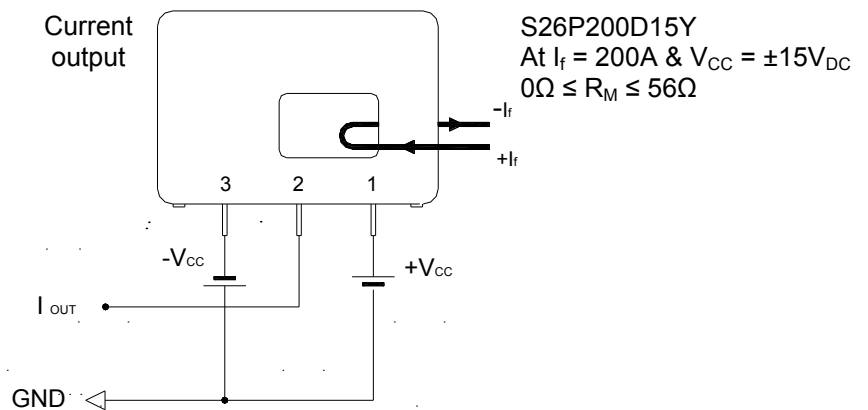
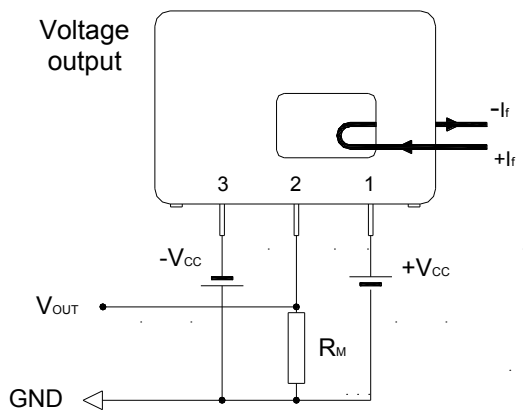
NOTES

1. Unit is mm
2. Tolerance is 0.5mm

Terminal number:

1. +Vcc(+15V)
2. I_{OUT}
3. -Vcc(-15V)

Electrical connection diagram



UL Standard

UL 508 , CSA C22.2 No.14 (UL FILE No.E243511)

- For use in Pollution Degree 2 Environment.
- Maximum Surrounding air temperature rating, 85°C.

CAUTION

Do not wrap the primary conductor around the core part of the product to increase measured current.

Package & Weight Information

| Weight | Pcs/box | Pcs/carton | Pcs/pallet |
|--------|---------|------------|------------|
| 45g | 50 | 200 | 5400 |

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