

Specifications



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
- III Recognition

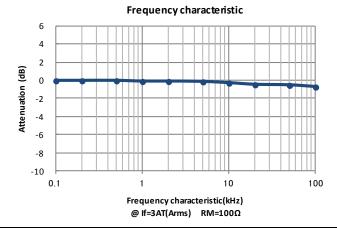
Advantages:

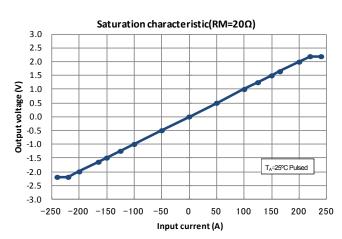
- Excellent accuracy and linearity
- Low temperature drift
- Wide frequency bandwidth
- No insertion loss
- High Immunity to external interferences
- Optimised response time
- Current overload capability

Specifications	• (JL Recognition	$T_A=25$ °C, $V_{CC}=\pm15V$	
Parameters	Symbol	S26P200D15Y		
Primary nominal current	l _f	200A	300A	
Maximum current ¹ (at 85°C)	I _{fmax}	± 350A (at R _M ≤ 5Ω)		
Measuring resistance (at 85°C)	R _M	$0\Omega \sim 26\Omega$ (at V _{CC} = ±12V) $0\Omega \sim 56\Omega$ (at V _{CC} = ±15V)	$0\Omega \sim 4\Omega \text{ (at V}_{CC} = \pm 12\text{V})^2$ $0\Omega \sim 8\Omega \text{ (at V}_{CC} = \pm 15\text{V})$	
Conversion Ratio	K _N	1 : 2000		
Rated output current	lo	100mA	150mA	
Output current accuracy ³ (at I _f)	Х	I _O ± 0.4%		
Offset current ⁴ (at If=0A)	l _{Of}	≤ ± 0.2mA		
Output linearity³(0A~lf)	ε ∟	≤ ± 0.15% (at I _f)		
Power supply voltage ¹	V _{cc}	± 12V ± 15V ± 5%		
Consumption current	Icc	≤ ± 16mA (Output current is not included)		
Response rime ⁵	t _r	≤ 1.0µs (at di/dt = 100A / µs)		
Thermal drift of gain ⁶	Tclo	≤ ± 0.01% / °C		
Thermal drift of offset current	Tclof	\leq ± 0.5mA max (at T _A = -40° C \Leftrightarrow +85 $^{\circ}$ C)		
Hysteresis error	I _{OH}	\leq 0.3mA (@ I_f =0A \rightarrow I_f \rightarrow I_f =0A)		
Insulation voltage	V_d	AC 3000V, for 1minute (sensing current 0.5mA), inside of through hole ⇔ terminal		
Insulation resistance	R _{IS}	≥ 500MΩ (@ DC 500V) , inside of through hole ⇔ terminal		
Secondary coil resistance	Rs	60Ω (at T _A = 70°C), 65Ω (at T _A = 85°C)		
Ambient operation temperature	T _A	− 40°C ~ +85°C		
Ambient storage temperature	Ts	− 40°C ~ +90°C		

 $^{^{1}}$ Maximum current is restricted by V_{CC} — 2 I_f = 250A — 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







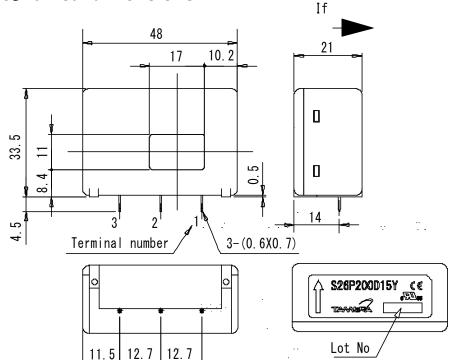






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Mechanical dimensions



NOTES

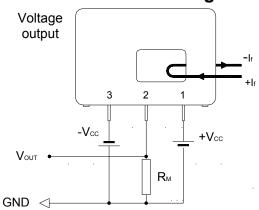
- 1. Unit is mm
- 2. Tolerance is 0.5mm

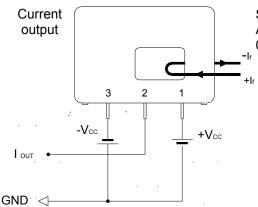
Terminal number:

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

Electrical connection diagram

(25.4)





S26P200D15Y At I_f = 200A & V_{CC} = ±15 V_{DC} 0Ω ≤ R_M ≤ 56Ω

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





