



Hall Effect Current Sensors S26P200D15Y

Advantages:

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

Specifications	UL Recognition Current overload capability T _A =25°C, V _{CC} =±15 [°]			
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)	$\begin{array}{c} 0\Omega \sim 4\Omega \; (\text{at } V_{\text{CC}} = \pm 12\text{V})^2 \\ 0\Omega \sim 8\Omega \; (\text{at } V_{\text{CC}} = \pm 15\text{V}) \end{array}$	
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)	I _{Of}	≤ ± 0.2mA		
Output linearity ³ (0A~If)	£ ∟	≤ ± 0.15% (at I _f)		
Power supply voltage ¹	V _{cc}	± 12V ± 15V ± 5%		
Consumption current	I _{cc}	≤ ± 16mA (Output current is not included)		
Response rime ⁵	tr	≤ 1.0µs (at di/dt = 100A / µs)		
Thermal drift of gain ⁶	Tclo	≤ ± 0.01% / °C		
Thermal drift of offset current	Tclof	≤ ± 0.5mA max (at $T_A = -40^{\circ}C \Leftrightarrow +85^{\circ}C$)		
Hysteresis error	I _{ОН}	\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 \Leftrightarrow terminal		
Insulation resistance	R _{IS}	≥ 500MΩ (@ DC 500V) , inside of through hole \Leftrightarrow 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		

Features:

Aperture

UL94V0

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Closed Loop type

Current or voltage output

Conversion ratio $K_N = 1:2000$

Printed circuit board mounting

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 — ⁶Without Thermal drift of offset current

Electrical Performances





Tamura reserve the right to modify its products in order to improve them without prior notice

COMPLIAN



Hall Effect Current Sensors S26P200D15Y



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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