

磁気平衡式 / 電流出力型  
Servo system Current-output type

S25P SERIES



仕様 SPECIFICATIONS

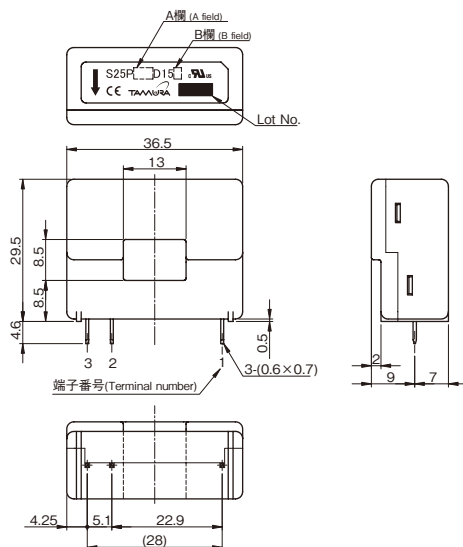
Ta=25°C, Vcc=±15V

項目 Spec	カタログ品番 Types	S25P050D15X	S25P100D15Y	S25P100D15X	S25P150D15Y
定格電流 Primary nominal current	If	50A	100A	100A	150A
測定抵抗 If=±Aoc at Ta=85°C Measuring resistance	RL	Vcc=±12V 60Ω~95Ω Vcc=±15V 135Ω~155Ω	Vcc=±12V 0Ω~42Ω Vcc=±15V 20Ω~102Ω	Vcc=±12V 10Ω~65Ω Vcc=±15V 40Ω~95Ω	Vcc=±12V 0Ω~15Ω Vcc=±15V 0Ω~55Ω
定格出力電流 Rated output current	Io	50mA (巻線比 Turn ratio 1:1000)	50mA (巻線比 Turn ratio 1:2000)	100mA (巻線比 Turn ratio 1:1000)	75mA (巻線比 Turn ratio 1:2000)
出力電流精度 Output current accuracy	XG	Io±0.5% (Iofは除く without Iof)			
オフセット電流*1 Offset current	Iof	≤ ±0.2mA (at If=0A)	≤ ±0.1mA (at If=0A)	≤ ±0.2mA (at If=0A)	≤ ±0.2mA (at If=0A)
最大電流 Vcc=±15V, Ta=85°C Maximum current	Ifmax	±55A (at RL=135Ω)*2	±150A (at 20Ω≤RL≤25Ω)	±160A (at 40Ω≤RL≤50Ω)	±200A (at 0Ω≤RL≤40Ω)
出力直線性 Output linearity	εL	≤ ±0.15% (at If)			
電源電圧 Power supply voltage	Vcc	±12V ±5%~±15V ±5% (Rated output current is restricted by Vcc)			
消費電流 Consumption current	Icc	≤ ±16mA (Without Io)			
di/dt 応答速度 (@90% of If) Response time	tr	≤ 1μS (at di/dt=If/μs)			
出力電流温度係数 Thermal drift of gain	TCIo	≤ ±0.01%/°C (Without TClof)			
オフセット電流温度係数 Thermal drift of offset	TClof	≤ ±0.5mA			
ヒステリシス誤差 Hysteresis error	Ioh	≤ 0.3mA (at If=0A → If → If=0A)			
絶縁耐圧 Insulation voltage	Vd	AC3000V, 1分間(感応電流0.5mA) 貫通部内側⇄端子一括間 AC3000V for 1 minute (Sensing current 0.5mA) inside of through hole ⇄ terminal			
絶縁抵抗 Insulation resistance	Ris	≥500MΩ (at DC500V) 貫通部内側⇄端子一括間 ≥500MΩ (at DC500V) inside of through hole ⇄ terminal			
動作温度範囲 Ambient Operating temperature	TA	-40°C~+85°C			
保存温度範囲 Ambient storage temperature	TS	-40°C~+90°C			
2次側コイル抵抗値 Secondary coil resistance	RS	at Ta=70°C 80Ω at Ta=85°C 85Ω	at Ta=70°C 120Ω at Ta=85°C 128Ω	at Ta=70°C 25Ω at Ta=85°C 28Ω	at Ta=70°C 95Ω at Ta=85°C 105Ω

\*1 オフセット電流はコアヒステリシス除去後の値とする。 Offset current value is after removal of core hysteresis. \*2: Ta=70°C, Ifmax=70A (at 50Ω≤RL≤90Ω)

\* UL承認条件につきましては、別紙を参照願います。 Please refer to the another sheet about conditions of UL Recognition.

外形図 DIMENSIONS (mm)



A欄表示(A field display)

電流 (Current)	A欄 (A field)
50A	050
100A	100
150A	150

B欄表示(B field display)

巻線 (Coil)	B欄 (B field)
1000T	X
2000T	Y

\*50Aは1000Tのみ、150Aは2000Tのみ (50A is 1000T only, 150A is 2000T only)

端子番号 Terminal number  
1: +Vcc  
2: -Vcc  
3: OUT

質量 Weight:  
20g typ

注 Note  
1. 指示なき寸法公差は±0.5mm  
Unless otherwise specified,  
tolerances shall be ±0.5mm