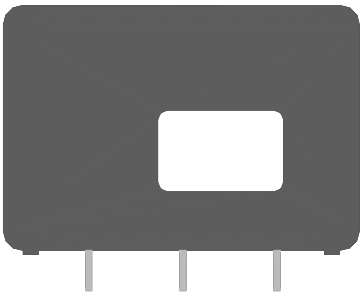
Hall Effect Current Sensors S26P200D15Y



Features:

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

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

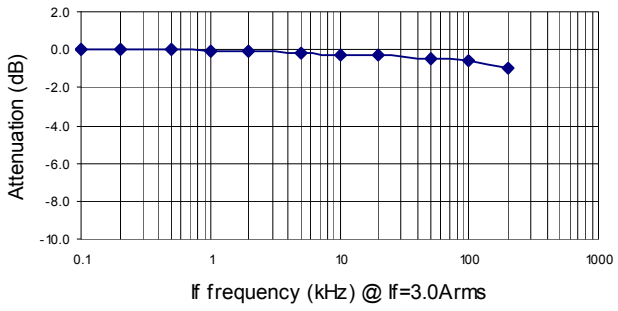
T_A=25ºC, V_{CC}=±15V

Parameters	Symbol	S26P200D15Y
Rated Current	I_f	200AT
Maximum Current[1]	I_{fmax}	± 350A (@ R_M ≤ 5Ω)
Measuring resistance If = ± A_{DC} @ 85°C	R_M	0Ω ~ 26Ω @ V_{CC} = ±12V 0Ω ~ 56Ω @ V_{CC} = ±15V
Conversion Ratio	K	1 : 2000
Output Current	I_{OUT}	± 100mA
Offset Current	I_{OE}	± 0.2mA @ I_f = 0A
Output Current Accuracy	X	I_{OUT} ± 0.4%
Output Linearity	ε_L	± 0.15% @ I_f
Supply Voltage[3]	V_{CC}	± 12V ~ ± 15V ± 5% (±11.4V ~ 16V)
Consumption Current	I_{CC}	± 16mA (Output Current is not included)
Response Time[4]	t_r	< 1.0µs @ di/dt = I_f / µs
Output Temperature Characteristic	TCI_{OUT}	± 0.01% / ºC @ I_f
Offset Temperature Characteristic	TCI_{OE}	< ± 0.5mA max. @ I_f = 0A (-40ºC ~ +85ºC)
Hysteresis allowance	I_{OH}	≤ 0.3mA (0A ⇔ I_f)
Insulation Withstanding	V_d	AC 3000V, for 1minute (sensing current 0.5mA), inside of aperture ⇔ terminals
Insulation Resistance	R_{IS}	> 500MΩ (@ DC 500V) inside of aperture ⇔ terminals
Frequency Bandwidth	f	DC .. 100 kHz
Secondary Coil Resistance	R_S	60Ω @ T_A = 70ºC 65Ω @ T_A = 85ºC
Operating Temperature	T_A	– 40ºC ~ +85ºC
Storage Temperature	T_S	– 40ºC ~ +90ºC

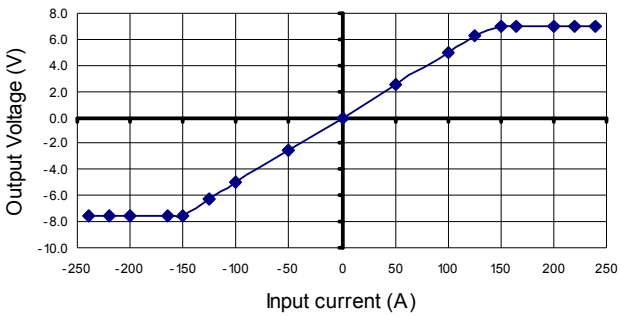
[1] @ V_{CC}=±15V for 10 Seconds — [2] @ I_f = 250AT — [3] Rated Current is restricted by V_{CC} — [4] Time between 10% input current full scale and 90% of sensor output full scale

Electrical Performances

Frequency Characteristic S26P200D15Y



Saturation Characteristic S26P200D15Y (R_M=100Ω)



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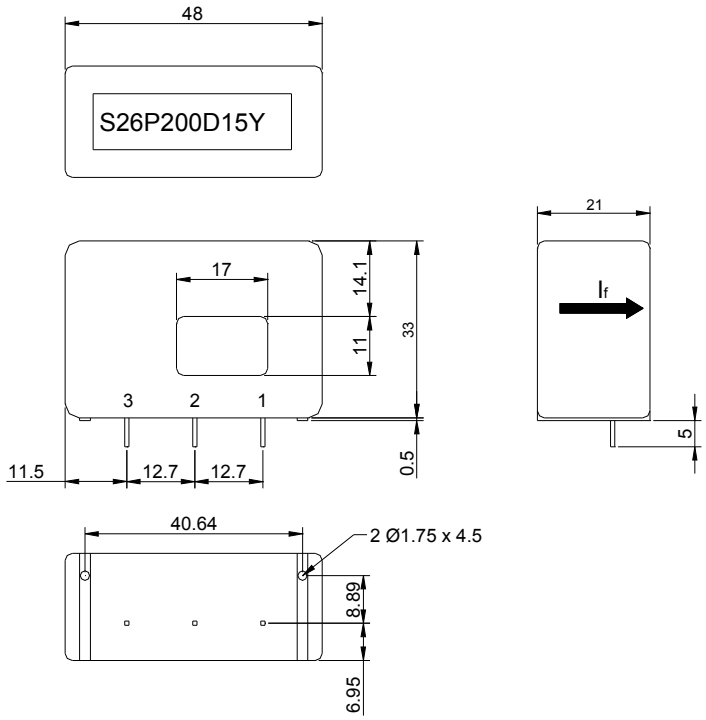
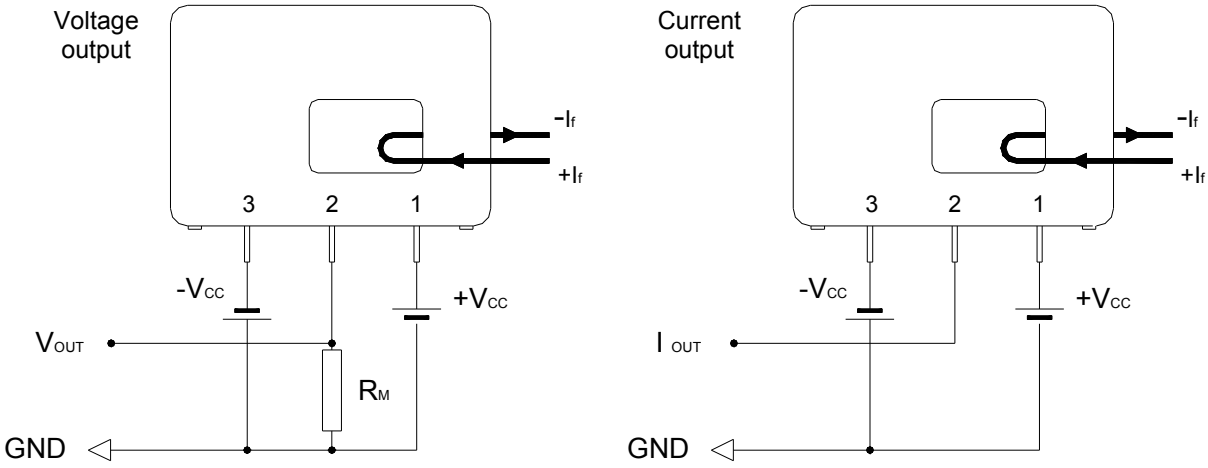
Mechanical dimensions in mm



Terminal function:
1. $+V_{CC}$
2. OUTPUT
3. $-V_{CC}$

Electrical connection diagram



Package & Weight Information

Weight	Pcs/box	Pcs/carton	Pcs/pallet
23g	50	200	2400