

Hall Effect Current Sensors

3 to 25 Amp Applications — Open Loop

- Compact PCB Mount Design
- Dual Integrated Primary
- Withstanding Voltage of 2000 Vrms
- 3A - 25A with a Bipolar $\pm 15\text{VDC}$ Supply Voltage
- Low Cost



Specifications Measured at 25°C, RL=10K Ω Vcc= $\pm 15\text{V}$

Specification		L07P003D15	L07P005D15	L07P010D15	L07P015D15	L07P020D15	L07P025D15
Nominal Primary DC Current (If)		$\pm 3\text{A}$	$\pm 5\text{A}$	$\pm 10\text{A}$	$\pm 15\text{A}$	$\pm 20\text{A}$	$\pm 25\text{A}$
Maximum Current	If(max)	$\pm 9\text{A}$	$\pm 15\text{A}$	$\pm 30\text{A}$	$\pm 45\text{A}$	$\pm 60\text{A}$	$\pm 75\text{A}$
Output Voltage @ If	V _{OUT}	$+4\text{V} \pm 0.05\text{V}, -4\text{V} \pm 0.150\text{V}$ (at If)					
Offset Voltage	V _{OE}	$0 \pm 0.50\text{V}$					
Accuracy @ If ¹	X	$\pm 1\%$ of If					
Output Linearity ¹ (O..If Max)	E _L	$\leq \pm 1\%$ (at 0A ~ If)					
Power Supply	Vcc	$\pm 15\text{V} \pm 5\%$					
Response Time	T _r	$\leq 10\mu\text{sec}$ (di/dt = 10A / 5 μsec)					
Current Consumption	Ic	$\leq 30\text{mA}$					
Output Temperature Characteristic	TCE _G	$< \pm 0.1\% / ^\circ\text{C}$					
Offset Temperature Characteristic	V _{OT}	$\leq \pm 2\text{mV} / ^\circ\text{C TYP}$					
Hysteresis Allowance @ If=0	V _{OH}	$\leq 30\text{mV}$ (0A = If)					
Withstand Voltage (50/60Hz)	V _d	2,000VACrms for 1 minute (Sensing Current 0.5mA)					
Insulation Resistance @ 500VDC	R _{IS}	$\geq 500\text{MW}$					
Operating Temperature	T _A	$-10 \sim +80^\circ\text{C}$					
Storage Temperature	T _S	$-20 \sim +85^\circ\text{C}$					

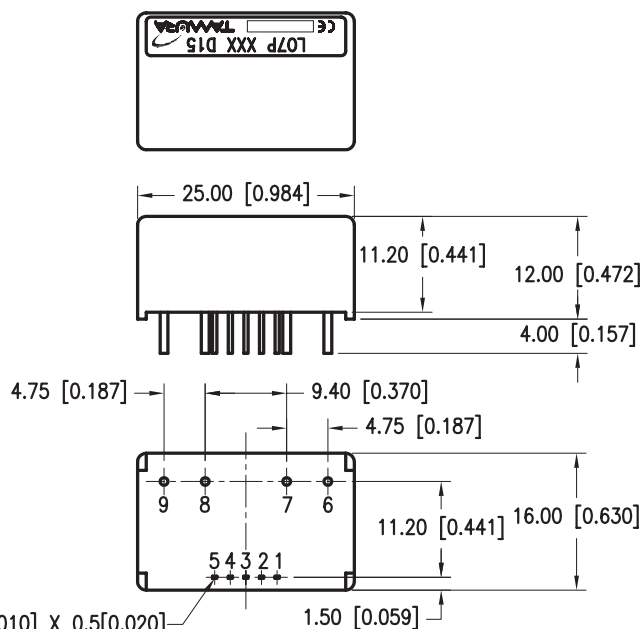
1. Without offset

Package & Weight Information

QTY/Box	Weight/each(g)
CALL	CALL

TERMINAL	FUNCTION
1	+15V
2	-15V
3	OUT1
4	OUT2
5	GND
6	+IN1
7	-IN1
8	+IN2
9	-IN2

CURRENT	Ø PIN
3A	Ø 0.6[0.024]
5A	Ø 0.8[0.031]
10A ~ 15A	Ø 1.4[0.055]
20A ~ 25A	Ø 1.6[0.063]



5 RECTANGULAR PINS 0.25[0.010] X 0.5[0.020]

Unless otherwise specified, tolerances shall be $\pm 0.5\text{mm}$.

TAMURA CORPORATION

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5 to 40 Amp Applications — Open Loop

- Compact PCB Mount Design
- Dual Integrated Primary
- Withstanding Voltage of 2000 Vrms
- 5A - 40A Unipolar +5VDC Supply Voltage
- Low Cost



Specifications Measured at 25°C, RL=10KΩ Vcc=+5V

Specification	L07P005S05	L07P007S05	L07P010S05	L07P015S05	L07P020S05	L07P025S05	L07P030S05	L07P040S05
Nominal Primary DC Current (If)	±5A	±7A	±10A	±15A	±20A	±25A	±30A	±40V
Maximum Current	If(max)	±6.25A	±9.375A	±12.5A	±18.75A	±25A	±31.25A	±50A
Output Voltage @ If	V _{OUT}	2.5V ±1.5V						
Offset Voltage	V _{OE}	V _{OUT} ± 45mV						
Accuracy @ If ¹	X	± 1%						
Output Linearity ¹ (O.If Max)	E _L	≤ ± 1% (at 0A ~ If)						
Power Supply	V _{cc}	+ 15V ±5%						
Response Time	T _r	≤ 5μsec (di/dt = 10A / 5μsec)						
Current Consumption	I _c	≤ 30mA						
Output Temperature Characteristic	TCE _G	< ± 2mV / °C						
Offset Temperature Characteristic	V _{OT}	≤ ± 2mV / °C MAX						
Hysteresis Allowance @ If=0	V _{OH}	≤ 15mV (0A = If)						
Withstand Voltage (50/60Hz)	V _d	2,000VACrms for 1 minute (Sensing Current 0.5mA)						
Insulation Resistance @ 500VDC	R _{IS}	≥ 500MΩ						
Operating Temperature	T _A	-25 ~ +80°C						
Storage Temperature	T _S	-25 ~ +85°C						

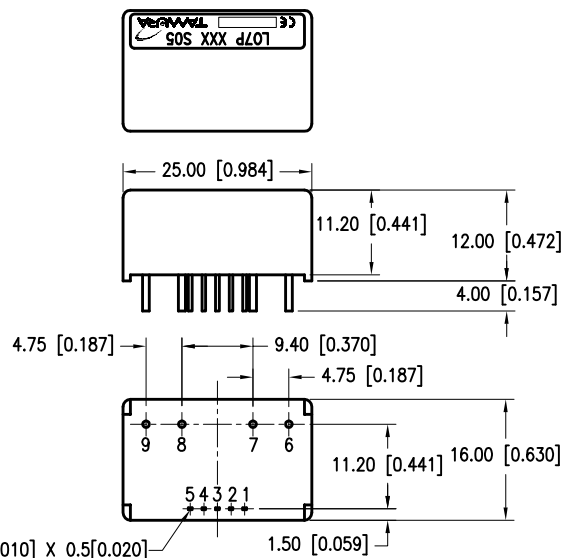
1. Without offset

Package & Weight Information

QTY/Box	Weight/each(g)
CALL	CALL

TERMINAL	FUNCTION
1	+5V
2	NC
3	OUT1
4	OUT2
5	GND
6	+IN1
7	-IN1
8	+IN2
9	-IN2

CURRENT	Ø PIN
5A ~ 10A	Ø 0.6[0.024]
15A ~ 20A	Ø 0.9[0.035]
25A ~ 40A	Ø 1.2[0.047]



5 RECTANGULAR PINS 0.25[0.010] X 0.5[0.020]

Unless otherwise specified, tolerances shall be ±0.5mm.

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Hall Effect Current Sensors

3 to 30 Amp Applications — Open Loop

- Compact PCB Mount Design
- Integrated Primary
- Withstanding Voltage of 3000 Vrms
- 3A - 30A with a Bipolar $\pm 15\text{VDC}$ Supply Voltage
- Low Cost



Specifications Measured at 25°C, RL-10K Ω Vcc= $\pm 15\text{V}$

Specification		L18P003D15	L18P005D15	L18P010D15	L18P015D15	L18P020D15	L18P025D15	L18P030D15
Nominal Primary DC Current	(If)	$\pm 3\text{A}$	$\pm 5\text{A}$	$\pm 10\text{A}$	$\pm 15\text{A}$	$\pm 20\text{A}$	$\pm 25\text{A}$	$\pm 30\text{A}$
Maximum Current	If(max)	$\pm 9\text{A}$	$\pm 15\text{A}$	$\pm 30\text{A}$	$\pm 45\text{A}$	$\pm 60\text{A}$	$\pm 60\text{A}$	$\pm 90\text{A}$
Output Voltage @ If	V _{OUT}	$\pm 4\text{V} \pm 0.04\text{V}$ (at If)						
Offset Voltage	V _{OE}	$0 \pm 0.040\text{V}$						
Accuracy @ If ¹	X	$\pm 1\%$ of If						
Output Linearity ¹ (O..If Max)	E _L	$\leq \pm 1\%$ MAX						
Power Supply	Vcc	$\pm 15\text{V} \pm 5\%$						
Response Time	T _r	$\leq 5\mu\text{sec}$ (di/dt = 10A / 5 μsec)						
Current Consumption	Ic	$\leq 15\text{mA}$						
Output Temperature Characteristic	TCE _G	$< \pm 0.1\%$ / °C MAX						
Offset Temperature Characteristic	V _{OT}	$\leq \pm 1.5\text{mV}$ / °C TYP						
Hysteresis Allowance @ If=0	V _{OH}	$\leq 25\text{mV}$ (0A = If)						
Withstand Voltage (50/60Hz)	V _d	3,000VACrms for 1 minute (Sensing Current 0.5mA)						
Insulation Resistance @ 500VDC	R _{IS}	$\geq 500\text{M}\Omega$						
Operating Temperature	T _A	$-10 \sim +80^\circ\text{C}$						
Storage Temperature	T _S	$-20 \sim +85^\circ\text{C}$						

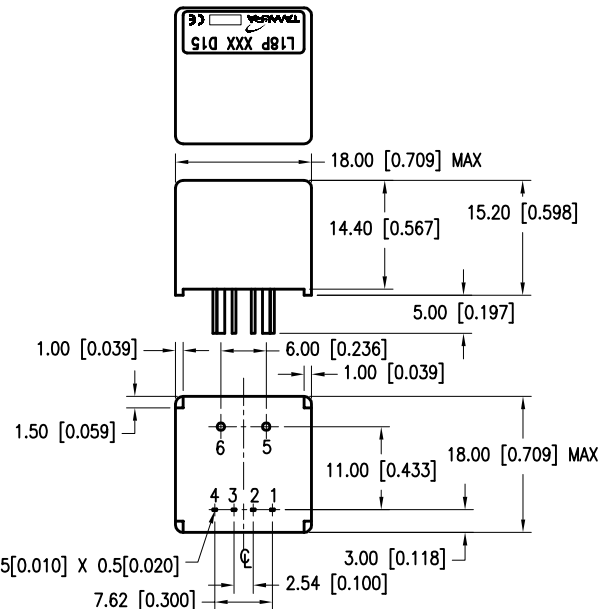
¹ Without offset

Package & Weight Information

QTY/Box	Weight/each(g)
CALL	CALL

TERMINAL	FUNCTION
1	-V _{CC}
2	GND
3	+V _{CC}
4	OUTPUT
5	+IN
6	-IN

CURRENT	Ø PIN
3A ~ 5A	Ø 0.6[0.024]
10A ~ 15A	Ø 0.9[0.035]
20A ~ 30A	Ø 1.2[0.047]



4 RECTANGULAR PINS 0.25[0.010] X 0.5[0.020]
7.62 [0.300]

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Hall Effect Current Sensors

40 to 60 Amp Applications — Open Loop

- Compact PCB Mount Design
- Dual Integrated Primary
- Withstanding Voltage of 3000 Vrms
- 40A - 60A Bipolar ± 15 VDC Supply Voltage
- Durable Busbar Construction



Specifications Measured at 25°C, RL=10K Ω Vcc= ± 15 V

Specification		L18P040D15	L18P050D15	L18P060D15
Nominal Primary DC Current (If)		± 40 A	± 50 A	± 60 A
Maximum Current	If(max)	± 120 A	± 150 A	± 180 A
Output Voltage @ If	V _{OUT}	± 4.0 V ± 0.050 V		
Offset Voltage	V _{OE}	0 ± 0.040 V		
Accuracy @ If ¹	X	$\pm 1\%$		
Output Linearity ¹ (O..If Max)	E _L	$\leq 1\%$ MAX		
Power Supply	Vcc	± 15 V $\pm 5\%$		
Response Time	T _r	$\leq 5\mu$ sec		
Current Consumption	Ic	≤ 15 mA		
Output Temperature Characteristic	TCE _G	$< \pm 0.1\%$ / °C MAX		
Offset Temperature Characteristic	V _{OT}	$\leq \pm 1.5$ mV / °C MAX		
Hysteresis Allowance @ If=0	V _{OH}	≤ 40 mV (0A = If)		
Withstand Voltage (50/60Hz)	V _d	3000VACrms for 1 minute (Sensing Current 0.5mA)		
Insulation Resistance @ 500VDC	R _{IS}	≥ 500 M Ω		
Operating Temperature	T _A	$-10 \sim +80$ °C		
Storage Temperature	T _S	$-20 \sim +85$ °C		

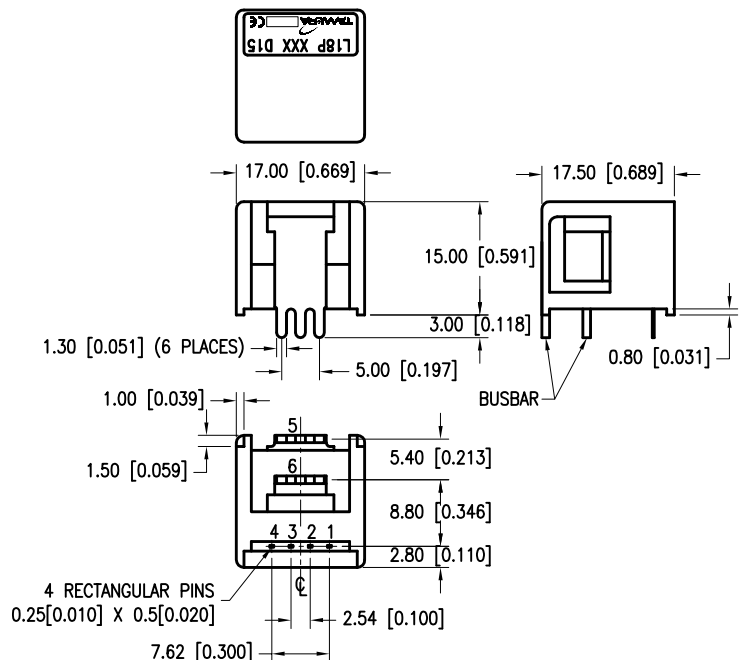
1. Without offset

Package & Weight Information

QTY/Box	Weight/each(g)
CALL	CALL

TERMINAL	FUNCTION
1	-V _{CC}
2	GND
3	+V _{CC}
4	OUTPUT
5	+IN
6	-IN

CURRENT	Ø PIN
40A ~ 60A	BUSBAR 1.0[0.04]X6.3[2.48]



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Hall Effect Current Sensors

50 to 200 Amp Applications — Open Loop



- Compact PCB Mount Design
- Voltage Output type
- CE EN50178 (pending)

Specifications Measured at 25°C, RL=10KΩ, V_{CC}=±15V

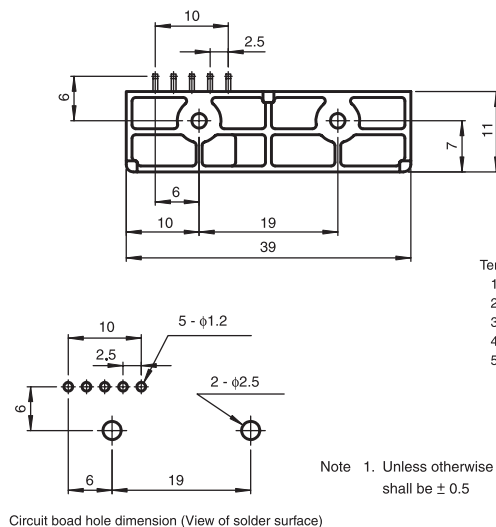
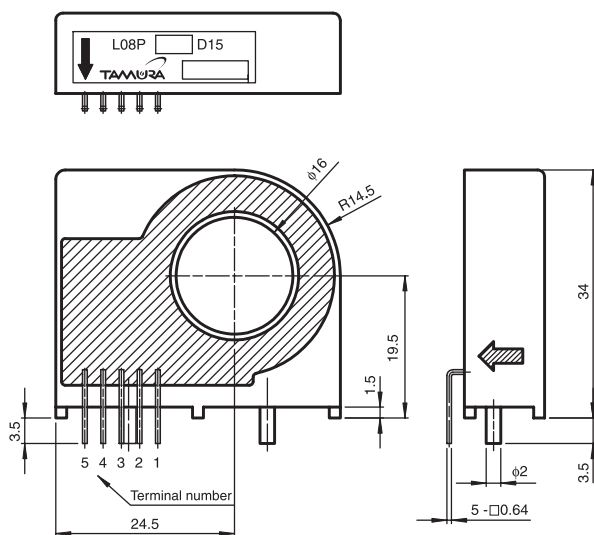
Specification		L08P050D15	L08P100D15	L08P150D15	L08P200D15
Nominal Primary DC Current	(If)	50AT	100AT	150AT	200AT
Maximum Current	If(max)	±150AT	±300AT	±350AT	±350AT
Output Voltage @ If	VOUT	4V			
Offset Voltage	VOE	<±40mV			
Accuracy @ If²	X	±1% of If			
Output Linearity² (0..If MAX)	EL	≤±1% of If			
Power Supply	VCC	±15V±5%			
Response Time	tr	<10µ Sec			
Current Consumption	IC	12mA typ			
Output Temperature Characteristic	TCEG	<±0.1% / °C	<±0.05% / °C		
Offset Temperature Characteristic	VOt	<±2mV / °C	<±1mV / °C		
Hysteresis Allowance @ If=0	VOH	< ±30mV	<± 20mV		
Withstand Voltage (50/60Hz)	Vd	2,500VACrms for 1 minute (Sensing Current 0.5mA)			
Insulation Resistance @ 500VDC	RIS	≥500MΩ			
Operating Bandwidth¹ (-3dB)	f	DC - 50kHz			
Operating Temperature	TA	-10 - +80°C			
Storage Temperature	TS	-20 - +85°C			

¹ Small signal only; derating needed to avoid excessive core heating at high frequency

² Without offset

Package & Weight Information

QTY/Box	Weight/each(g)
50	25



Terminal number
1 +15V
2 - 15V
3 OUT
4 GND
5 NC(No connection)

Note 1. Unless otherwise specified, tolerances shall be ± 0.5

Circuit board hole dimension (View of solder surface)

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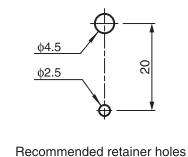
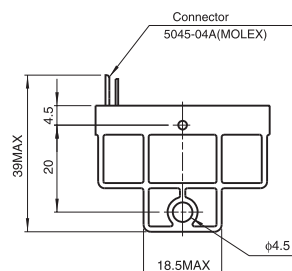
- Compact PCB Mount Design
- Voltage Output type
- Very High Linearity
- 15V Supply Voltage
- CE EN50178 (pending)



Specification		L03S050D15	L03S100D15	L03S200D15	L03S300D15	L03S400D15	L03S500D15	L03S600D15
Nominal Primary DC Current	(If)	50AT	100AT	200AT	300AT	400AT	500AT	600AT
Maximum Current	If(max)	±150AT	±300AT	±600AT	±700AT	±700AT	±700AT	±700AT
Output Voltage @ If	VOUT	4V						
Offset Voltage	VOE	<± 40mV	<±30mV					
Accuracy @ If²	X	±1% of If						
Output Linearity² (0..If MAX)	EL	±1% of If						
Power Supply	VCC	±15V±5%						
Response Time	tr	≤5µ Sec						
Current Consumption	Ic	12mA typ						
Output Temperature Characteristic	TCEG	<±0.1% / °C						
Offset Temperature Characteristic	VOt	<±2mV / °C	<±1mV / °C					
Hysteresis Allowance @ If=0	VOH	±30mV			±20mV		±10mV	
Withstand Voltage (50/60Hz)	Vd	2,500VACrms for 1 minute (sensing current 0.5mA)						
Insulation Resistance @ 500VDC	RI5	≥500MΩ						
Operating Bandwidth¹ (-3dB)	f	DC - 50kHz						
Operating Temperature	TA	-10 - +80°C						
Storage Temperature	TS	-15 - +90°C						

² Without offset

QTY/Box	Weight/each(g)
20	50



Note 1. Unless otherwise specified, tolerances shall be ± 0.5

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Hall Effect Current Sensors

50 to 600 Amp Applications — Open Loop



- Compact PCB Mount Design
- Voltage Output type
- Very High Linearity
- 5V Supply Voltage
- CE EN50178 (pending)

Specifications Measured at 25°C, RL=10KΩ, Vcc=+ 5V; Vref = $\frac{V_{CC}}{2}$

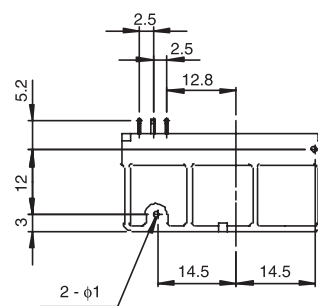
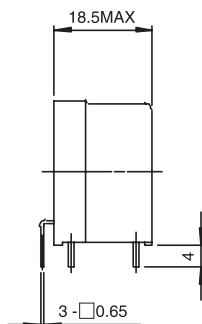
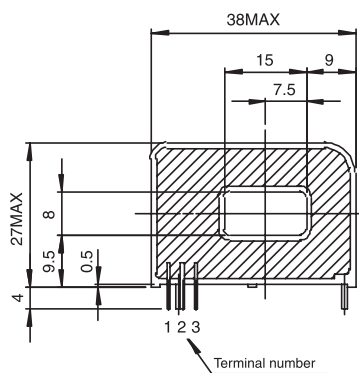
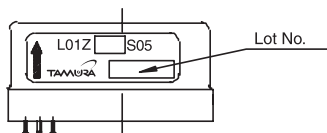
Specification		L01Z050S05	L01Z100S05	L01Z150S05	L01Z200S05	L01Z300S05	L01Z400S05	L01Z500S05	L01Z600S05
Nominal Primary DC Current (If)		50AT	100AT	150AT	200AT	300AT	400AT	500AT	600AT
Maximum Current If(max)		±62.5AT	±125AT	±187.5AT	±250AT	±375AT	±500AT	±625AT	±750AT
Output Voltage @ If	V _{OUT}	Vref±1.5V				Vref±1.5V			
Offset Voltage	V _{OE}	2.5V±0.035V				2.5V±0.030V			
Accuracy @ If ²	X	<±1% of If				<±1% of If			
Output Linearity ² (0..If MAX)	E _L				±1% of If				
Power Supply	Vcc				5V ±2.0%				
Response Time	t _r				<5μs				
Current Consumption	Ic				<15mA				
Output Temperature Characteristic	TCE _G	<±2mV / °C			<±1.5mV / °C				
Offset Temperature Characteristic	V _{OT}	<±2mV / °C			<±1mV / °C				
Hysteresis Allowance @ If=0	V _{OH}		±8mV		±4mV			±6mV	
Withstand Voltage (50/60Hz)	V _d				2,500VACrms for 1 minute (sensing current 0.5mA)				
Insulation Resistance @ 500VDC	R _{IS}				≥500MΩ				
Operating Bandwidth ¹ (-3dB)	f				DC - 50kHz				
Operating Temperature	T _A				-10 - +80°C				
Storage Temperature	T _S				-15 - +85°C				

¹ Small signal only; derating needed to avoid excessive core heating at high frequency

² Without offset

Package & Weight Information

QTY/Box	Weight/each(g)
50	45



Terminal number
1 OUT
2 OV
3 5V

Note 1. Unless otherwise specified, tolerances shall be ±0.5

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Hall Effect Current Sensors

100 to 300 Amp Applications — Closed Loop

- PCB Mount Design
- Current Output type
- Very High Linearity
- $\pm 15V$ Supply Voltage
- CE EN50178 (pending)



Specifications Measured at 25°C, RL=10K Ω , VCC= $\pm 15V$

Specification		S21Z100D15	S21Z150D15	S21Z200D15	S21Z300D15
Nominal Primary DC Current	(If)	100A	150A	200A	300A
Maximum Current	If(max)	150A	225A	300A	450A
Output Current @ If	I _{OUT}	50mA	75mA	100mA	150mA
Conversion Ratio	K _n	1:2000	1:2000	1:2000	1:2000
Accuracy	X	$\pm 1\%$ of If			
Offset Current (If=0) ¹	I _o	$\pm 0.5mA$			
Output Linearity ¹ (0..If)	E _L	$\pm 0.25\%$ of If			
Power Supply	V _{CC}	$\pm 15V \pm 5\%^2$			
Response Time	t _r	$\leq 1\mu s$			
Current Consumption	I _c	$\pm 16mA^3$			
Output Temperature Characteristic	TC _{OUT}	$\pm 0.025\% / ^\circ C$ @ If=0 (Ta=-5 to +70°C)			
Offset Temperature Characteristic	I _{OT}	$\pm 0.025mA / ^\circ C$ @ If=0 (Ta=-5 to +70°C)			
Hysteresis Allowance If=0 - Ifmax)	I _{OH}	$\leq 0.3mA$			
Withstand Voltage (50/60Hz)	V _d	2,500VACrms for 1 minute (sensing current 0.5mA)			
Insulation Resistance @ 500VDC	R _{IS}	500M Ω			
Frequency Bandwidth (-3dB)	f	DC - 150kHz			
Operating Temperature	T _A	-10 - +70°C			
Storage Temperature	T _S	-20 - +85°C			
Secondary Coil Resistance	R _s	TBD Ohms @ Ta = 70°C (Contact Tamura for additional info)			

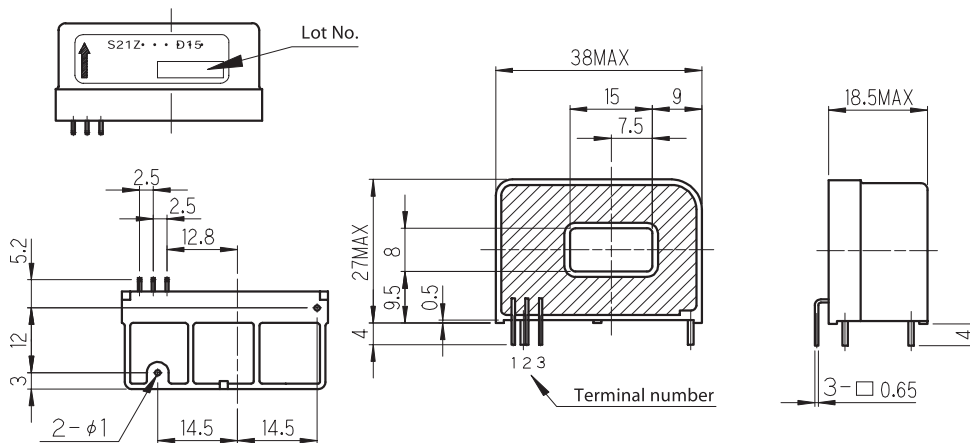
¹ Without Offset

² Ifmax is Restricted by V_{CC}

³ Output Current not included

Package & Weight Information

QTY/Box	Weight/each(g)
50	25



Note 1. Unless otherwise specified, tolerances shall be ± 0.5

Terminal number
1.OUT
2.-15V
3.+15V

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Hall Effect Current Sensors

50 to 300 Amp Applications — Closed Loop



- Panel Mount Design
- Current Output type
- Very High Linearity
- $\pm 12V$ or $\pm 15V$ Supply Voltage
- CE EN50178 (pending)

Specifications Measured at 25°C, $R_L \pm 15K\Omega$, $V_{CC} = \pm 12V$

Specification		S20S050A	S20S100A	S20S150A	S20S200A	S20S300A
Nominal Primary DC Current	(If)	50A	100A	150A	200A	300A
Maximum Current	If(max)	75A	150A	225A	300A	450A
Output Current @ If	I _{OUT}	50mA	100mA	150mA	100mA	150mA
Conversion Ratio	K _H	1:1000	1:1000	1:1000	1:2000	1:2000
Offset Current (If=0)	I _o	$\pm 0.5mA$				
Accuracy ¹	X	$< \pm 1\%$ of If				
Output Linearity ⁴ (0..MAX)	E _L	$\pm 0.25\%$				
Power Supply	V _{CC}	12V or $\pm 15V \pm 5\%$ ²				
Response Time @ di/dt=50A/uSec	t _r	1μs				
Current Consumption	I _c	$\pm 16mA$ ³				
Output Temperature Characteristic	T _{ClOUT}	$\pm 0.02\% / ^\circ C$ @ If (Ta=-5 to +70°C)				
Offset Temperature Characteristic	I _{OT}	$\pm 0.025mA / ^\circ C$ @ If=0 (Ta=-5 to +70°C)				
Hysteresis Allowance	I _{OH}	0.5mA				
Withstand Voltage (50/60Hz)	V _d	2,500VACrms for 1 minute (sensing current 0.5mA)				
Insulation Resistance @ 500VDC	R _{IS}	500MΩ				
Frequency Bandwidth (-3dB)	f	DC - 150kHz				
Operating Temperature	T _A	-10 - +70°C				
Storage Temperature	T _S	-20 - +85°C				
Secondary Coil Resistance	R _S	¹ Ohms @ 70°C (Contact Tamura Tech Support)				

¹ TBD

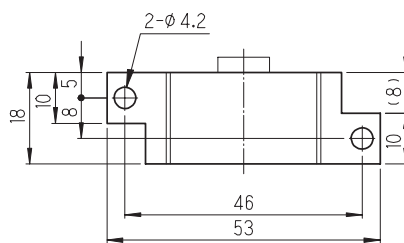
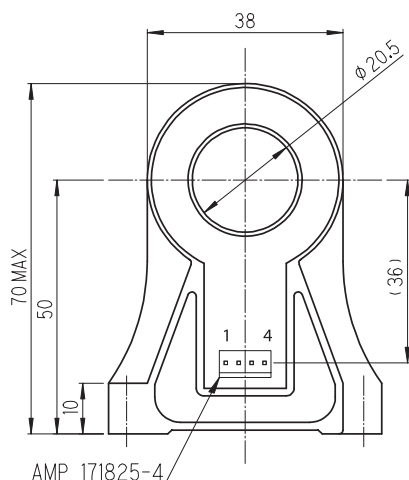
² Ifmax is Restricted by Vcc

³ Output Current not included

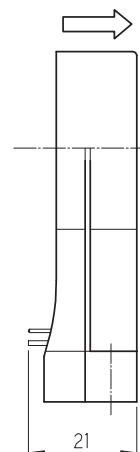
⁴ Without offset

Package & Weight Information

QTY/Box	Weight/each(g)
TBD	46



Note Unless otherwise specified, tolerances shall be ± 0.5



Terminal Pin
1+15V
2- 15V
3.OUT
4.NC

TAMURA CORPORATION

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USA
Tel: 800-872-6624
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Japan
Tel: 81 (0)3 3978-2111
Fax: 81 (0)3 3923-0230

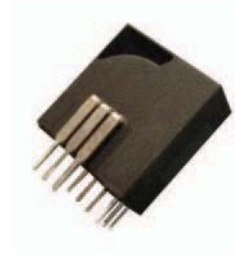
United Kingdom
Tel: 44 (0) 1380 731 700
Fax: 44 (0) 1380 731 702

Hong Kong
Tel: 852-2389-4321
Fax: 852-2341-9689

Hall Effect Current Sensors

6 to 25 Amp Applications — Closed Loop

- Multirange Current Sensor
- Voltage Output
- Compact PCB Mount
- Single Supply ($\pm 5V$)
- CE EN50178 (pending)



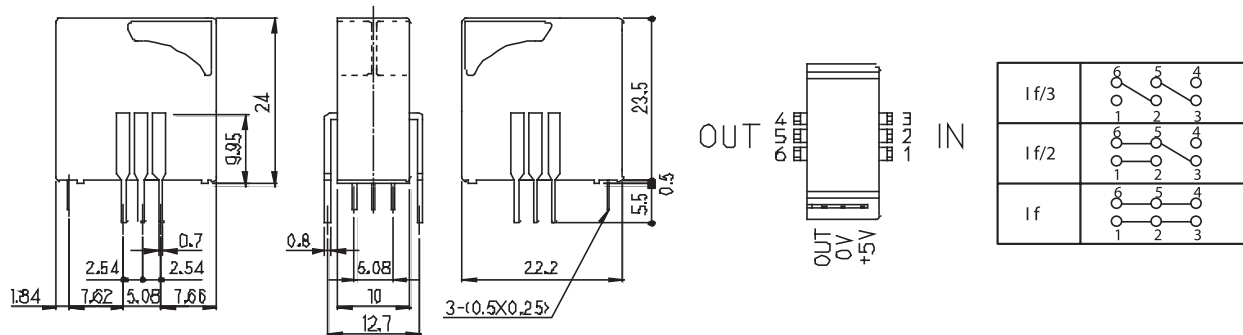
Specifications Measured at 25°C, RL=10K Ω , V_{CC}=+5V

Specification	S22P006S05	S22P015S05	S22P025S05
Nominal Primary r.m.s. Current (I _f)	$\pm 6A$	$\pm 15A$	$\pm 25A$
Maximum Current I _{f(max)}	$\pm 18A$	$\pm 45A$	$\pm 75A$
Offset Voltage (I _f =0) V _{REF}	2.5V $\pm 30mV$	2.5V $\pm 20mV$	2.5V $\pm 15mV$
Output Voltage V _{OUT}	V _{REF} $\pm$ 0.625V		
Output Voltage Accuracy ¹ @ I _f	0.625V $\pm$ 10mV		
Output Linearity (0 to I _f) E _L	$\pm 0.25\%$		
Power Supply V _{CC}	$\pm 5V \pm 5\%$		
Response Time t _r	1 μs		
Current Consumption I _C	12.5mA Typ		
Output Temperature Characteristic ICEG	$\pm 0.05mV/^{\circ}C$		
Offset Temperature Characteristic TC _{VOUT}	1.25mV/ $^{\circ}C$	1.25mV/ $^{\circ}C$	1.25mV/ $^{\circ}C$
Hysteresis Allowance (I _f =0 to I _{fmax}) V _{OH}	$\leq 0.25mV$		
Withstand Voltage (50/60Hz) V _d	3,000VACrms for 1 minute (sensing current 0.5mA)		
Insulation Resistance @ 500VDC R _{IS}	$\geq 500M\Omega$		
Operating Bandwidth (1dB) f	DC - 200kHz		
Operating Temperature T _A	-10 - +85 $^{\circ}C$		
Storage Temperature T _S	-25 - +100 $^{\circ}C$		

¹ Without offset

Package & Weight Information

QTY/Box	Weight/each(g)
100	8



TAMURA CORPORATION

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 Fax: 909-676-9482 Fax: 81 (0)3 3923-0230 Fax: 44 (0) 1380 731 702 Fax: 852-2341-9689

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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