

Hall Effect Current Sensors

50 to 600 Amp Applications — Open Loop

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



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

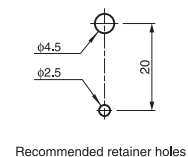
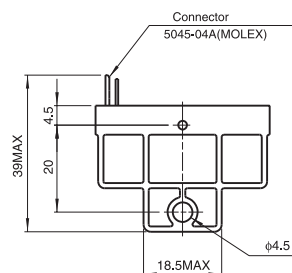
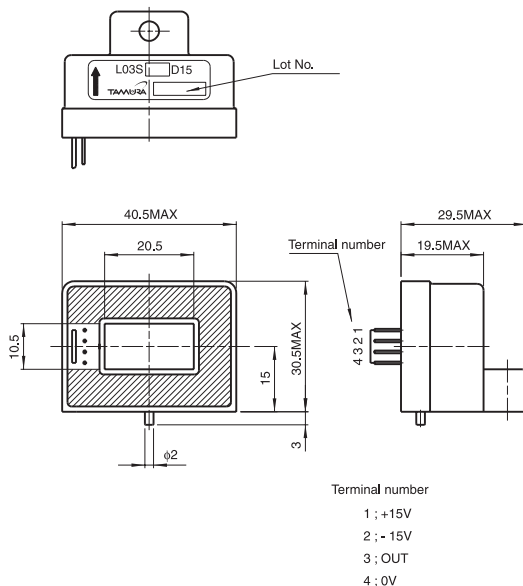
Specification		L03S050D15	L03S100D15	L03S200D15	L03S300D15	L03S400D15	L03S500D15	L03S600D15
Nominal Primary DC Current	(If)	50AT	100AT	200AT	300AT	400AT	500AT	600AT
Maximum Current	If(max)	±150AT	±300AT	±600AT	±700AT	±700AT	±700AT	±700AT
Output Voltage @ If	VOUT	4V						
Offset Voltage	VOE	<± 40mV	<±30mV					
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	RIS	≥500MΩ						
Operating Bandwidth¹ (-3dB)	f	DC - 50kHz						
Operating Temperature	TA	-10 - +80°C						
Storage Temperature	TS	-15 - +90°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)
20	50



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

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