

Current Sensor / Guide map

Current range	SERIES	Model	Main Specification					UL R/C	Features	Page
			Circuit System	Mounting Configuration	Primary Conductor	Rated Current	Power Voltage			
6A ~ 150A	F01P 	F01PxxxS05L	Fluxgate system	On-board	Built-in bus-bar	6~50A	+5V	●	<ul style="list-style-type: none"> • Super precision & High stability • F02P & F03P : With reference access • F03P : Longer creepage and clearance distances 	19
	F02P 	F02PxxxS05L								
	F03P 	F03PxxxS05L								
	F23P 	F23PxxxS05R	Fluxgate system	On-board	Built-in bus-bar	50~100A	+5V	●	<ul style="list-style-type: none"> • Super precision & High stability • With reference access 	37
	F26P 	F26PxxxS05 F26PxxxS05A F26P150S12	Fluxgate system	On-board	Through hole □20.5×11	50~150A	+5V	●	<ul style="list-style-type: none"> • Super precision & High stability • With reference access (Ref_in / Ref_out), * F26P150S12 has only Vref (OUT) function • Suffix - "A" ; Improved output voltage waveform distortion 	42
		150A				+12V				
3A ~ 2500A	L18P 	L18PxxxD15AHV L18PxxxD15-OP L18PxxxS05 L18PxxxS05R L18PxxxS12	Open loop	On-board	Built-in coil/ bus-bar	3~60A	±15V	●	<ul style="list-style-type: none"> • Low cost • Compact, high performance • Name end "AHV": Anti-Sulfurated (Coating), Improve dvdt characteristics • Name end "R"; Rated voltage change 	62
							+5V			
							+12V			
	L07P 	L07PxxxD15 L07PxxxD15S L07PxxxS05	Open loop	On-board	Built-in coil	3~30A	±15V	●	<ul style="list-style-type: none"> • Low cost • Built-in 2 circuits • Name end "S"; Anti-Sulfurated (Coating, Anti-Sulfurated resistance) 	69
							+5V			
	LA17P 	LA17PxxxS05	Open loop	On-board (Discrete)	Built-in bus-bar	10~50A	+5V	●	<ul style="list-style-type: none"> • Open loop - one chip ASIC model • With reference access • Non ratiometric output (Vout, Voff, Vref) 	112
	L12P 	L12P025D15	Open loop	On-board	Built-in coil	25A	±15V	●	<ul style="list-style-type: none"> • Low cost • Compact 	72
	L32P 	L32PxxxS05BFS L32PxxxS05FS	Open loop	On-board	Built-in bus-bar	50A, 100A	+5V	●	<ul style="list-style-type: none"> • Ferrite core is used. • With reference access • Used Anti-Sulfurated resistance 	73
					Through hole □15×8	50~400A				
	L08P 	L08PxxxD15IPV/ W/IPVW	Open loop	On-board	Through hole φ16	50~500A	±15V	●	<ul style="list-style-type: none"> • Wide range of applications • Improve dV/dt characteristics 	74
L01Z 	L01ZxxxS05	Open loop	On-board	Through hole □15×8	50~600A	+5V	●	<ul style="list-style-type: none"> • Wide electrical current range • Compact 	77	

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3A ~ 2500A	LA37S 	LA37SxxxS05M LA37SxxxS05J	Open loop	Connector (MOLEX/JST)	Through hole □20.3×10.3	50~600A	+5V	●	<ul style="list-style-type: none"> • Succession model of L37SxxxS05 series • Open loop - one chip ASIC model • Rated output voltage : Vof ±800mV or ±625mV • With reference access • Non ratiometric output 	78
		LA37SxxxS05KM LA37SxxxS05KJ								
	L37S 	L37SxxxS05M L37SxxxS05J	Open loop	Connector (MOLEX/JST)	Through hole □20.4×10.4	50~600A	+5V	●	<ul style="list-style-type: none"> • Design for lower dvdt noise • L37SxxxD15x : Succession model of L03SxxxD15W series • L37SxxxS05x : With reference access • Wide electrical current range • Compact 	88
		L37SxxxD15M L37SxxxD15J				50~600(800)A	±15V			
	L03S 	L03SxxxD15	Open loop	Connector (MOLEX)	Through hole □20.5×10.5	50~600A	±15V	●	<ul style="list-style-type: none"> • Wide electrical current range • Compact • Name end"W"; Saturation current up, Change position of CN (MOLEX or JST) 	94
		L03SxxxD15WM L03SxxxD15WJ		Connector (MOLEX/JST)		50~800A				
	L31S 	L31SxxxS05FS	Open loop	Connector (MOLEX)	Through hole □20.5×10.5	50~600A	+5V	●	<ul style="list-style-type: none"> • Wide electrical current range • Ferrite core is used. • With reference access • Used Anti-Sulfurated resistance 	96
	L06P 	L06PxxxS05	Open loop	On-board	Through hole φ22	300~800A	+5V	●	<ul style="list-style-type: none"> • Wide range of applications • Single power supply type 	97
	L05Z 	L05Z800S15	Open loop	Connector (JST)	Through hole □20.5×10.5	800A	+15V	●	<ul style="list-style-type: none"> • Wide range of applications • Single power supply type 	98
	L34S 	L34SxxxD15	Open loop	Connector (MOLEX)	Through hole □40.5×40.5	200~1500A	±15V	●	<ul style="list-style-type: none"> • Large aperture • Wide electrical current range • Suffix - "T"; Wide temperature range (-40 ~ +105°C) 	99
		L34SxxxD15T								
	L40S 	L40SxxxD15M L40SxxxD15J	Open loop	Connector (MOLEX/JST)	Through hole □40.5×30.5	200~1500A	±15V	●	<ul style="list-style-type: none"> • Succession model of L34SxxxD15T series • High-current (1500A_max) • Large aperture • Suffix - "C"; 1500V DC system voltage applicable 	103
		L40SxxxD15CM L40SxxxD15CJ								
L51S 	L51SxxxD15LM L51SxxxD15LJ	Open loop	Connector (MOLEX/JST)	Through hole □64.0×21.0	500~2500A	±15V	●	<ul style="list-style-type: none"> • High-Current (2500A_max) • Large aperture • Suffix- "(none)": Inner wall height 7mm, Suffix- "L": 3.3mm • Suffix- "C": 34mm. 1500V DC system voltage applicable 	107	
	L51SxxxD15M L51SxxxD15J									
	L51SxxxD15CM L51SxxxD15CJ									
L55S 	L55SxxxD15	Open loop	Connector (MOLEX)	Through hole □104.5×22.5	1500A, 2000A, 2500A	±15V	●	<ul style="list-style-type: none"> • High-Current (2500A_max) • Through-hole shape suitable for plate bus bars • 1500V DC system voltage applicable. UL508 Certification : Rated voltage 1000V. 	117	

Introduction

Fluxgate system

Open loop

Closed loop

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6A ~ 2000A	S22P 	S22PxxxS05M2 S22PxxxS05P	Closed loop	On-board	Built-in bus-bar	6~25A	+5V	●	<ul style="list-style-type: none"> Voltage - output type Name end "M2"; Backward compatible of normal model, External magnetic field improvement model Name end "P"; Short lead model of normal model 	121
	S23P 	S23PxxxD15M2 S23PxxxD15M1 S23PxxxD15	Closed loop	On-board	Built-in bus-bar	100A	±15V	●	<ul style="list-style-type: none"> High accuracy, High performance Name end "M2"; Backward compatible, dv/dt improvement type Name end "M1": Conversion Ratio 1:1000 Conversion Ratio - Normal & M2 type are 1:2000 	123
	S21S 	S21S180D15JN	Closed loop	Connector (JST)	Through hole R10	180A	±15V	●	<ul style="list-style-type: none"> Semicircle aperture Conversion Ratio 1:4000 	126
	S27S 	S27S300D15Y S27S300D15YM	Closed loop	Connector (MOLEX)	Through hole φ20	300A	±20V	●	<ul style="list-style-type: none"> High accuracy, High performance Conversion Ratio 1:2000 Connector: MOLEX (2 type) 	127
	S28S 	S28S500D24Z S28S500D24ZM S28S500D24ZJ	Closed loop	Connector (MOLEX)	Through hole φ30	500A	±24V	●	<ul style="list-style-type: none"> High-current, High accuracy Conversion Ratio 1:5000 Connector: MOLEX (2 type), JST (1 type) 	129
	S29S 	S29S1T0D24Z S29S1T0D24ZM S29S1T0D24ZJ	Closed loop	Connector (MOLEX/JST)	Through hole φ38.5	1000A	±24V	●	<ul style="list-style-type: none"> High-current, High accuracy Conversion Ratio 1:5000 Connector: MOLEX (2 type), JST (1 type) 	133
	S30S 	S30S2T0D24Z S30S2T0D24ZM S30S2T0D24ZJ	Closed loop	Connector (MOLEX/JST)	Through hole φ61	2000A	±24V	●	<ul style="list-style-type: none"> High-current, High accuracy Conversion Ratio 1:5000 Connector : MOLEX (2 types), JST (1 type) 	135
	S42S 	S42S1T0D24Z S42S1T0D24ZM S42S1T0D24ZJ	Closed loop	Connector (MOLEX/JST)	Through hole φ42	1000A	±24V	●	<ul style="list-style-type: none"> High-current, High accuracy Conversion Ratio 1:5000 Connector : MOLEX (2 types), JST (1 type) 	139