

Development specification

仕様 SPECIFICATIONS

Ta=25°C, RL=10kΩ, Vcc= ±15V

項目 Spec	カタログ品番 Types	記号 Symbol	L34S200D15C	L34S300D15C	L34S400D15C	L34S500D15C	L34S600D15C	L34S800D15C	L34S1T0D15C	L34S1T2D15C	L34S1T5D15C
定格電流 Primary nominal current	If		200A	300A	400A	500A	600A	800A	1000A	1200A	1500A
飽和電流 ※1 Saturation current	If max		±600A	±900A	±1200A	±1500A	±1800A	±2400A	±2500A	±2500A	±2500A
定格出力電圧 Rated Output Voltage	Vo		4V±0.040V (at If)								
オフセット電圧 Offset voltage	Vof		≤ ±0.020V (at If = 0A) ※2								
出力直線性 Output linearity (without offset)	εL		≤ ±0.5% (at 0A, 1/2If, If)								
電源電圧 Power supply voltage	Vcc		±15V±5%								
消費電流 Consumption current	Icc		≤ 25mA								
di/dt 応答速度 Response time	tr		≤ 5 μs (di / dt = If / μs) ※3								
出力電圧温度特性 Thermal drift of gain	TcVo		≤ ±0.05%/°C (Without TcVof)								
オフセット電圧温度特性 Thermal drift of offset	TCVof		≤ ±1.0mV/°C (at If=0A)								
ヒステリシス誤差 Hysteresis error	VOH		≤ ±10mV (at 0A→ If → 0A)								
絶縁耐圧 Insulation voltage	Vd		AC5.38kV, for 1minute (sensing current 0.5mA), inside of through hole ⇄ terminal								
絶縁抵抗 Insulation resistance	RiS		≥ 500MΩ (at DC500V) inside of through hole ⇄ terminal								
動作温度範囲 Ambient Operating temperature	TA		-30°C ~ +80°C								
保存温度範囲 Ambient storage temperature	TS		-40°C ~ +85°C								

※1 定格電流800A以下の製品を電源電圧±12Vでご使用される場合には、測定範囲が定格電流の2.5倍に狭くなります。

※2 オフセット電圧はコアヒステリシス除去後の値とする。

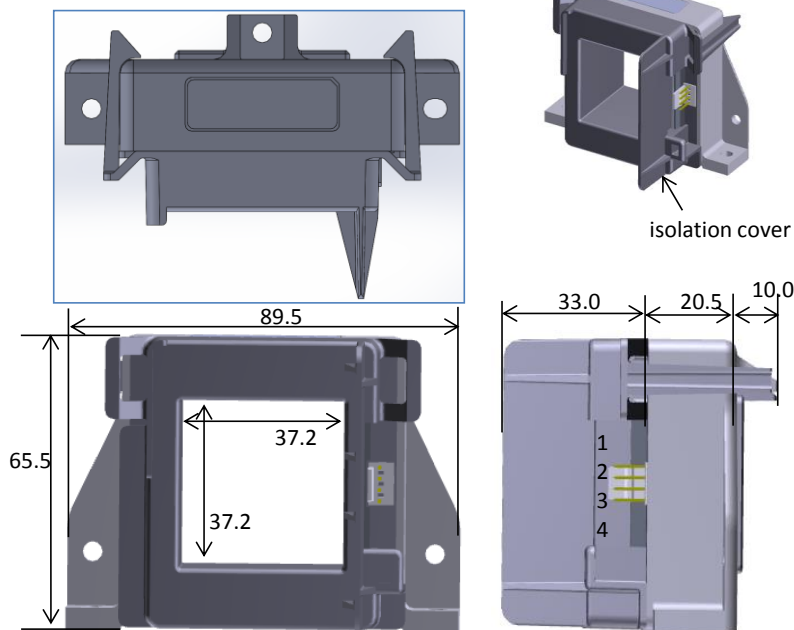
※3 測定条件: 1次導体の断面積は製品貫通穴面積と同じで1ターンで貫通とする。

※1 If the product of 800A or less operate at Vcc = ±12V power supplies, measuring range reduced to 2.5 × If.

※2 Offset voltage value is after removal of core hysteresis.

※3 Measurement condition: Primary conductor cross sectional area is as same as through hole, and penetration with 1turn in through hole.

外形図 DIMENSIONS(mm)



Primary conductor size : 36.7 × 36.7 mm max

コネクタ / Connector
MOLEX 22-04-1041

公差
(Tolerance): ±0.5
単位(Unit):mm

端子番号
(Terminal No.)
1. +Vcc (+15V)
2. -Vcc (-15V)
3. Vout

適用規格 STANDARDS

EN 50178

UL 508, CSA C22.2 No.14
(UL FILE No.E243511)

- For use in Pollution Degree 2 Environment.
- Maximum Surrounding air temperature rating, 80°C.

CAUTION

Do not wrap the primary conductor around the core part of the product for preventing to reduce the required Spacings.

絶縁性能 ISOLATION CHARACTERISTICS

空間距離 Clearance distance	24.0mm (Min)	Primary ⇄ Secondary
沿面距離 Creepage distance	30.5mm (Min)	Primary ⇄ Secondary

※Primary is through hole straight line structure.

質量 / Weight
190 g