



TKC-PT3 series current sensor is a open loop device based on the principle of the hall effect, with a galvanic isolation between primary and secondary circuit, It provides accurate electronic measurement of three phase DC, AC or pulsed currents.

# Electrical data ( $R_L=10k\Omega, C_L=10000PF$ )

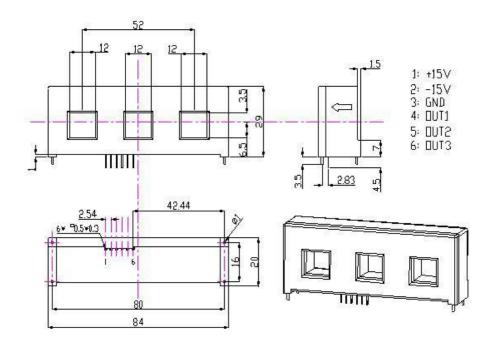
Туре	TKC50PT3	TKC100PT3	TKC150PT3	TKC200PT3	Unit
Parameter					
Rated input current (I <sub>PN</sub> )	±50	±100	±150	±200	А
Measure current range (I <sub>P</sub> )	±150	±300	±450	±600	А
Rated output voltage	±4±1.5%				
Supply voltage	±15±5%				
Consumption current	≤60				
Offset voltage	@Ta=25℃、铁芯消磁后 ≤±50				
Hysteresis	@ $ f=0 \sim 1 \times  _{P}$ $\leq \pm 150$				
Offset voltage drift	≤±2.0				
Amplitude voltage drift	0.08				
Linearity	@ If=I <sub>P</sub> ≤1.0				
Response time	@ di/dt=100A/µS或IPN/µs的较小一方 ≤10				
Band- width	@-3dB DC-25				KHz
Galvanic isolation	@ 50HZ/60Hz,AC,1min 2.5(导体通孔-端子一括间)				
Isolation resistance	@ DC 500V 500(导体通孔-端子一括间)				



# Applications

- Variable speed drives
- Welding machine
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Electrochemical

### Mechanical dimension(for reference only)



Remarks :

- 1. All dimensions are in mm.
- 2. General tolerance ±1mm

### **Directions for use**

- 1. It will be in a forward direction when the Ip flows according to the direction of the arrowhead.
- 2. The primary conductor should be  $\leq 120^{\circ}$ C.
- 3. The dynamic performance (di/dt and the response time) is the best when the primary hole is fully filled with the bus bar.



# TKC–PT3 Series Three-phase Hall Effect Current Sensor

- 4. When the current will be measured goes through a sensor, the voltage will be measured at the output end. (Note: The false wiring may result in the damage of the sensor)
- 5. Customs can adjust Output amplitude of the sensor by needs.
- 6. Custom design in the different rated input current and the output voltage are available.

### Standards

UL94-V0.

EN60947-1:2004

IEC60950-1:2001

EN50178:1998

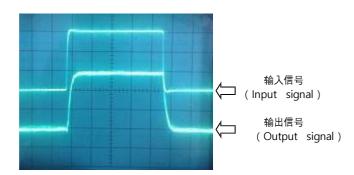
SJ 20790-2000

### **General date**

	Value	Unit	Symbol
Operating temperature	-40 ~ +105	°C	ТА
Storage temperature	-40 ~ +125	°C	TS
Mass(approx)	99	g	М

#### **Characteristics chart**

Pulse current signal response characteristic



Effects of impulse noise

