TC-LTAD series current transducer is applied the principle of electromagnetic induction, developed a new type of current transmitter, between primary and secondary high insulation. It provides accurate electronic measurement of AC currents.

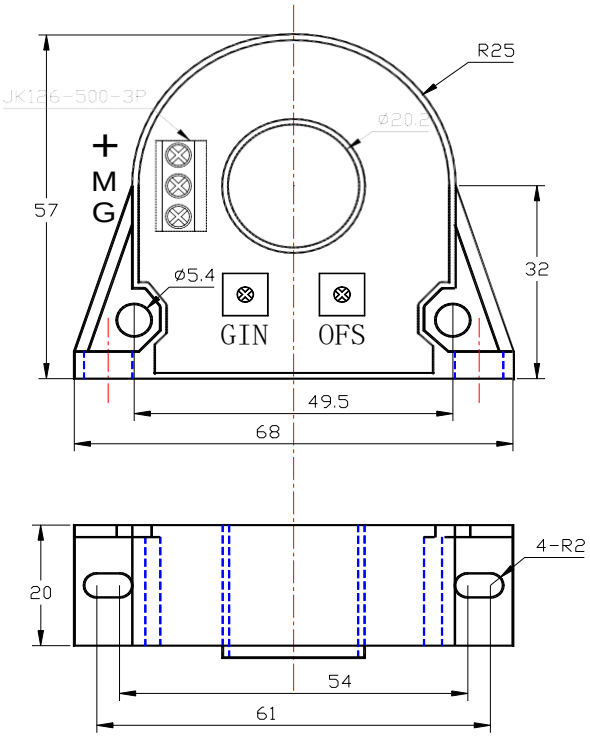
Electrical data (Ta=25℃±5℃)

Type / Parameter	TC0.3 LTAD	TC0.5 LTAD	TC1.0 LTAD	TC2.0 LTAD	TC5.0 LTAD	TC10 LTAD	TC20 LTAD	TC50 LTAD	TC100 LTAD	Unit
Rated current (IpnAC)	0.3	0．5	1．0	2.0	5.0	10	20	50	100	A
Measuring range (Ip AC)	0.6	1．0	2．0	4.0	10	20	40	100	200	A
Turns ratio (Np/Ns)	1：200	1：200	1：200	1:200	1:500	1:1000	1:1000	1:2000	1:2000	T
Rated output (Io DC)	@Ip=0-Ipn AC			4～20±1.0%						mA
Supply voltage				+24V ±5%						V
Power consumption				≤20+IpX (Np/Ns)						mA
Zero current	@Ip=0			4±0.1						mA
Zero drift				≤±0.05						mA/℃
Linearity	@ Ip=±Ipn			≤0.5						%FS
Response time				≤200						mS
Frequency	@-3dB			40～1000						Hz
Galvanic isolation	@ 50HZ， AC ，1min			2.5						KV

Applications

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

Mechanical dimension (for reference only)



Pins	Connected
+	+24V
M	OUT
G	GND

Remarks :

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

Directions for use

1. When the current will be measured goes through a transmitter, the voltage will be measured at the output end. (Note: The false wiring may result in the damage of the transmitter).
2. Customs can adjust output amplitude of the transmitter by needs.
3. Custom design in the different rated input current and the output current available.

Standards

UL94-V0

EN60947-1:2004

IEC60950-1:2001

EN50178:1998

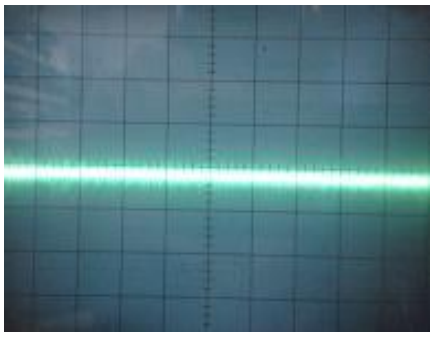
SJ 20790-2000

General date

	Value	Unit	Symbol
Operating temperature	-40 to +105	ºC	TA
Storage temperature	-40 to +125	ºC	TS
Mass(about)	90	g	M

Characteristics chart

Effects of impulse noise



⇦ (Output voltage)