



TC-LTAD2420 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.

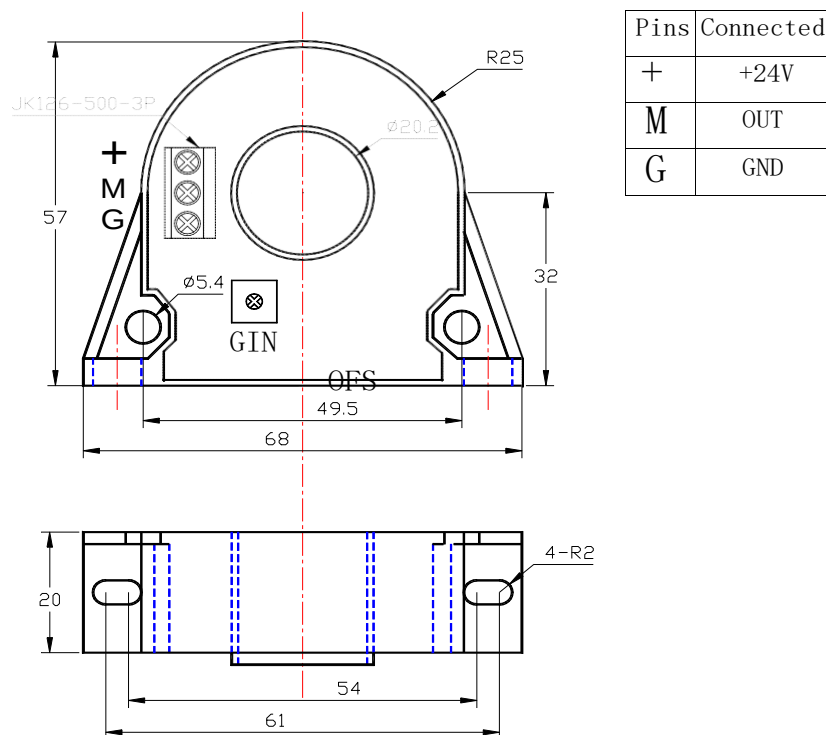
Electrical data (Ta=25°C±5°C)

Type Parameter	TC0.3 LTAD 2420	TC0.5 LTAD 2420	TC1.0 LTAD 2420	TC2.0 LTAD 2420	TC5.0 LTAD 2420	TC10 LTAD 2420	TC20 LTAD 2420	TC50 LTAD 2420	TC100 LTAD 2420	Unit
Rated current (I _{pn} AC)	0.3	0.5	1.0	2.0	5.0	10	20	50	100	A
Measuring range (I _p AC)	0.6	1.0	2.0	4.0	10	20	40	100	200	A
Turns ratio (N _p /N _s)	1 : 200	1 : 200	1 : 200	1:200	1:500	1:1000	1:1000	1:2000	1:2000	T
Rated output (I _o DC)	@I _p =0-I _{pn} AC 0 ~ 20±1.0%									mA
Supply voltage	+24V ±5%									V
Power consumption	≤20+I _p X (N _p /N _s)									mA
Zero current	@I _p =0 0±0.1									mA
Zero drift	≤±0.05									mA/°C
Linearity	@ I _p =±I _{pn} ≤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)



Remarks :

1. All dimensions are in mm.
2. General tolerance $\pm 1\text{mm}$.

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

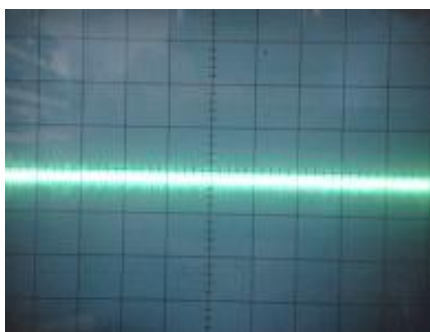
UL94-V0
 EN60947-1:2004
 IEC60950-1:2001
 EN50178:1998
 SJ 20790-2000

General data

	Value	Unit	Symbol
Operating temperature	-40 to +85	°C	TA
Storage temperature	-40 to +125	°C	TS
Mass(about)	90	g	M

Characteristics chart

Effects of impulse noise



← (Output voltage)

