TDC- LTC200 series DC leakage current sensor is a series of new devices developed according to the principle of electromagnetic induction. Its low current is stable. It is highly insulating between its primary coil and secondary coil. This sensor is used to measure current of signal system, circuit, and leakage monitoring system, as well as to measure current difference.

Electrical data (Ta=25℃±5℃)

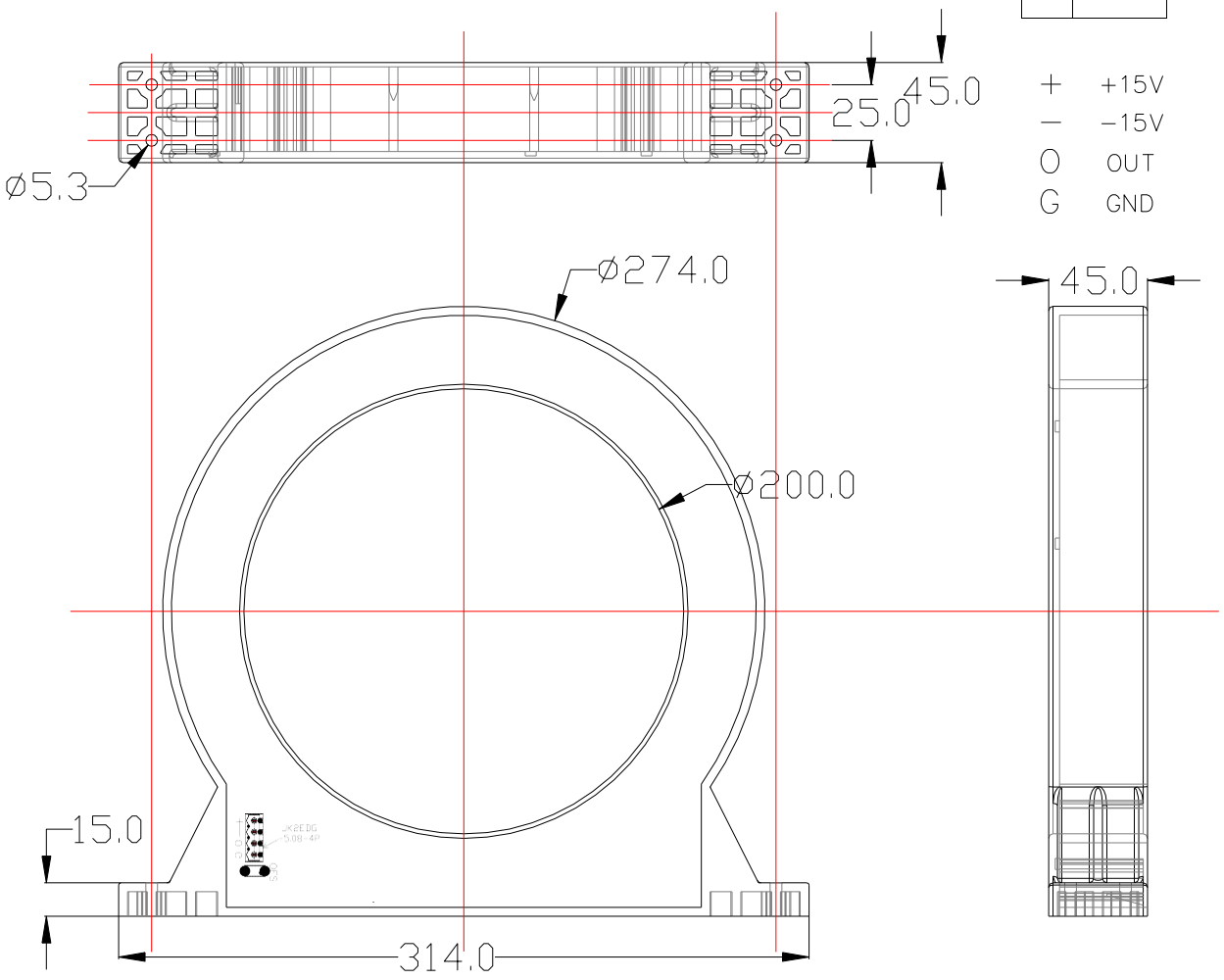
Parameter \ Type	TDC20LTC200	TDC30LTC200	TDC40LTC200	TDC50LTC200	Unit
Rated current(Ipn)	±20	±30	±40	±50	mA
Measure range (Ip)	±30	±45	±60	±75	mA
Turns ratio (Np/Ns)	1:100	1:150	1:200	1:250	T
Rated output voltage	@Ip=±Ipn ±5±1%				V
Supply voltage	±12--±15±5%				V
Consumption current	20+IpX (Np/Ns)				mA
Offset voltage	@Ip=0 ≤±50				mV
Offset voltage drift	≤±1.5				mV/℃
Linearity	@Ip=0-±Ipn ≤1				%FS
Response time	≤150				mS
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



Remarks :

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

Directions for use

1. 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).
2. The output amplitude of the sensor can be adjusted according to users' requirements.
3. 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 data

	Value	Unit	Symbol
Operating temperature	-40 to +85	ºC	TA
Storage temperature	-40 to +125	ºC	TS
Mass(approx)	349	g	M

Characteristics chart

Characteristic of Output Noise Voltage

(Noise voltage)

Input Current-Output Voltage