TKC-EKBDA24 Series Open Loop Mode Dismountable Hall Effect Current Transmitter

TKC-EKBDA24 series dismountable current transmitter is an 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 AC or pulsed currents.

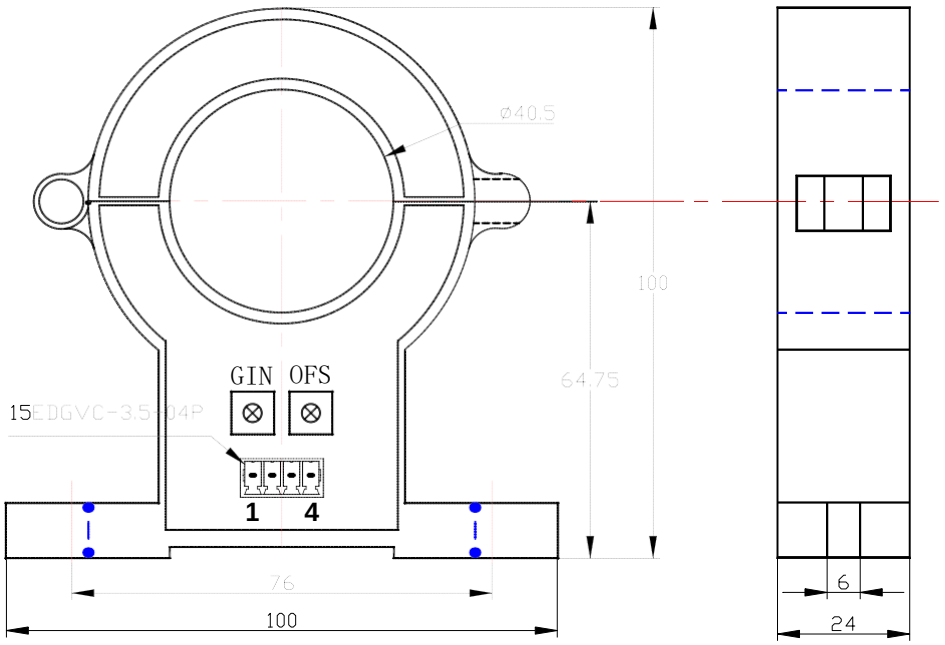
Electrical data (Ta=25℃±5℃)

Parameter \ Type	TKC200 EKBDA224	TKC500 EKBDA24	TKC800 EKBDA24	TKC1000 EKBDA24	TKC1500 EKBDA24	TKC2000 EKBDA24	Unit
Rated current (Ipn AC)	200	500	800	1000	1500	2000	A
Measuring range (Ip AC)	0-400	0-1000	0-1600	0-2000	0-3000	0-3000	A
Rated output (Io DC)	@Ip=0-Ipn AC	4～20±1.0%					mA
Supply voltage	24±5%						V
Power Consumption	+35+Io						mA
Measureresister （RM）	100-350						Ω
Zero current	@Ip=0	4±0.1					mA
Offset drift	≤±0.005						mA/℃
output drift	≤±0.005						mA/℃
Linearity	@Ip=Ipn AC	≤1					%FS
Response time	≤200						mS
Band-width	@-3dB	40～10000					Hz
Galvanic isolation	@ 50HZ， AC ，1min	5.0					KV

Applications

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

Mechanical dimension (for reference only)



Pins	Connected
1	+24V
2	GND
3	OUTPUT
4	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 current 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

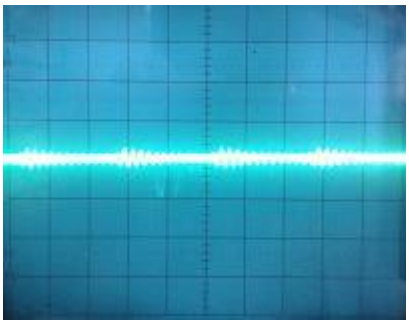
SJ 20790-2000

General data

	Value	Unit	Symbol
Operating temperature	-40 to +105	ºC	TA
Storage temperature	-40 to +125	ºC	TS
Mass(approx)	283	g	M

Characteristics chart

Effects of impulse noise



⇦ (Output voltage)