

TGDR-HG01 detects a ground fault using zero phase current. The operating of the TGDR-HG01 is that when the ground fault occurs at the load(high-voltage circuit) side, the TGDR-HG01 can detect the zero phase current with the ZCT from the flow of earth-capacitance capacity of source. So the TGDR-HG01 is operated at detected zero phase current, and CB(circuit breaker) and/or switchgear etc. are automatically operated by the relay trip signal.



TGDR-HG01

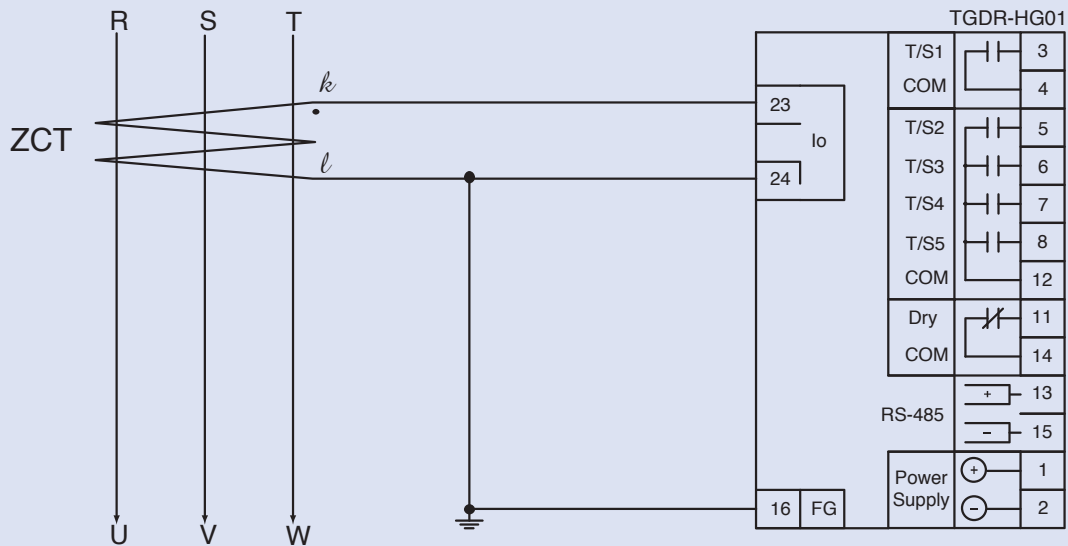
Specifications

TYPE		TGDR-HG01	
AUXILIARY POWER		AC/DC 110~220V(Free Voltage)	
FREQUENCY		50Hz or 60Hz	
INDICATOR		Character LCD 4x20	
OUTPUT CONTACT	OUTPUT RELAY	T/S1(1a x 1)	20A at AC250V, 30A at DC125V
		T/S2~T/S5(1a x 4)	5A at AC250V, 5A at DC125V
		Dry(1b x 1)	30W at DC125V, (25ms), 1A
COMMUNICATION	PROTOCOL	Modbus	
	RS-485(2-Wire)	1 Port (NO.13, 15)	
	RS-232	1 Port	
ZCT EXTERNAL		TZS Type (63Φ~200Φ)	
DIMENSIONS	W x H x D mm	168 x 218 x 167	

Setting Range

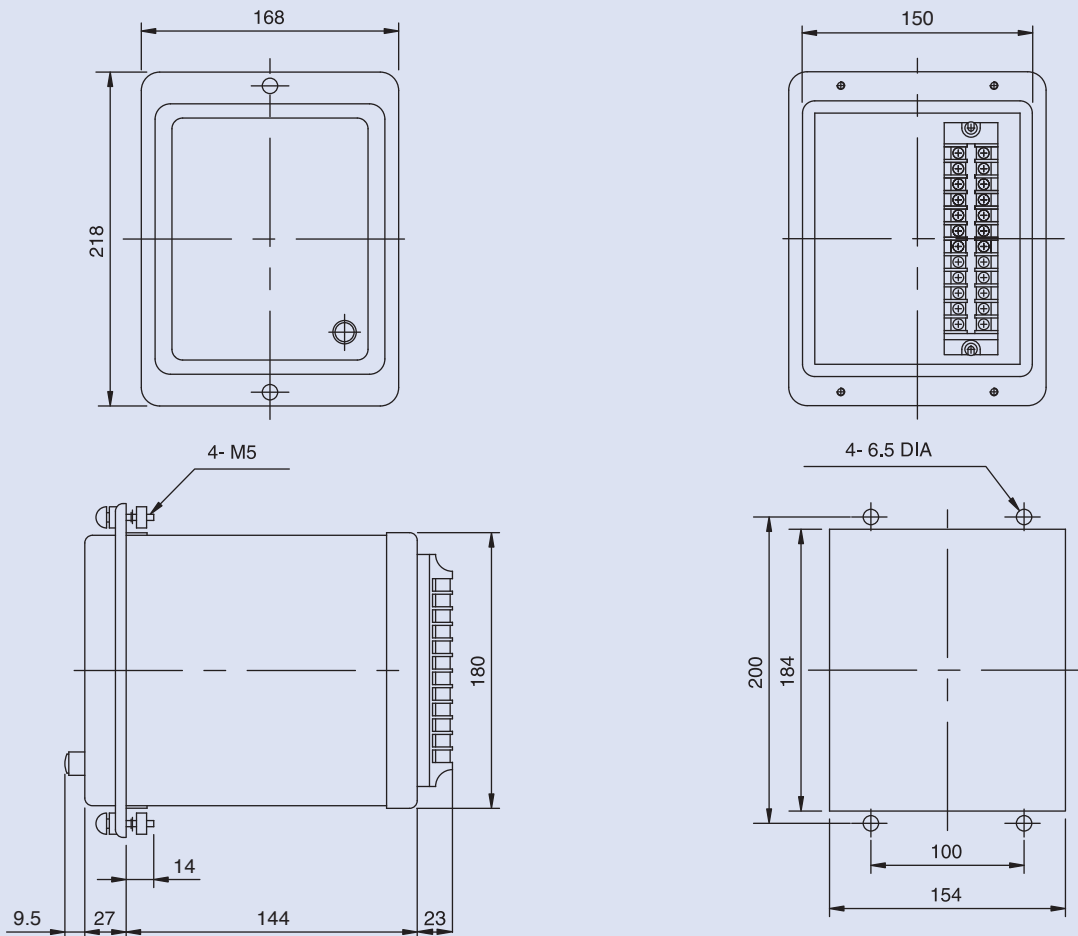
TYPE	ZCT Rating		Aux. Power	Setting Current Range(A)	Operating Time	Burden
	Pri. Cur.	In. Dia.				
TGDR-HG01 GROUND RELAY (50GS/51G) (64N)	400A	63ø	AC/DC 110~220V 50Hz or 60Hz	0.1~10.0A (Zero phase Primary current of ZCT) (0.1A step)	0.04~60sec. (0.01 sec step)	Zero phase current circuit ≤10Ω Aux. power ≤ 30W
	600A	95ø				
	800A	110ø				
	1500A	150ø				
	2000A	200ø				

External Wiring Diagram



Caution: The Dry Contact of the example connection is condition of before power on of auxiliar power supply. After power on and no problems, the Dry Contact will be an 'a' contact.

Dimension



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