HIGH VOLTAGE ZERO-PHASE CURRENT TRANSFORMER (ZCT) HZR-SERIES

HZR . HZS TYPE

CASE : BLACK COLOR

Sophisticated ZCT for supporting Ground fault relay

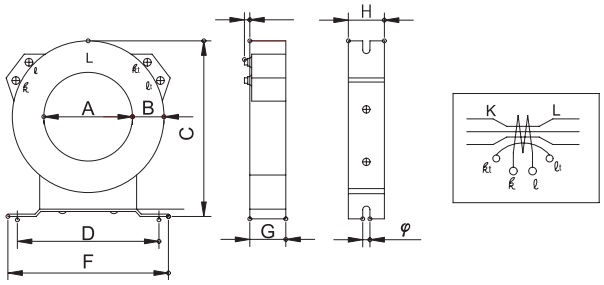
- It aims to provide excellent usability and safety, and designs more economical than conventional ZCT.
- With wide range of operation currents, it is conveniently structured for cabling nwork.
- Light and easy for panel setting and also various kind of ZCT according to selection cable.

Specification

Item	Rated Voltage(V)	Rated curr.(A)	Dia(ø)	Freq.(Hz)	Weight(kg)
HZR-050	6,600/3,300	HZR-050	HZR-050	HZR-050	HZR-050
HZR-065	6,600/3,300	HZR-065	HZR-065	HZR-065	HZR-065
HZR-080	6,600/3,300	HZR-080	HZR-080	HZR-080	HZR-080
HZR-100	6,600/3,300	HZR-100	HZR-100	HZR-100	HZR-100
HZR-120	6,600/3,300	HZR-120	HZR-120	HZR-120	HZR-120
HZR-150	6,600/3,300	HZR-150	HZR-150	HZR-150	HZR-150
HZR-200	6,600/3,300	HZR-200	HZR-200	HZR-200	HZR-200
Rated zero-phase pri. curr	200㎃/100㎷(Load 2㏀)				
	Confroming to JEC 1201 Dielectric Strength characteristics : 6A				
Dielectric strength Insulation resistance	22,000VAC, 50/60㎐ for 1min (between primary conductor and coil, and between primary conductor and mounting flange) 2,200VAC,50/60Hz for 1min(between secondary coil and test coil) 〉1,000MΩ at 500VDC (between each coils, and between each coil and munting flans				

Dimension

Item	A	B	C	D	E	F	G	H	Hole(ø)
HZR-050	50	25	50	131	122	7	32	36	6
HZR-065	65	26	65	143	133	7	39	37	6
HZR-080	80	34	80	174	180	7	40	40	6
HZR-100	100	38	100	203	180	7	40	40	6
HZR-120	120	45	120	225	210	16	55	35	10
HZR-150	150	45	150	260	210	16	55	35	10
HZR-200	200	53	200	310	286	10	70	35	10

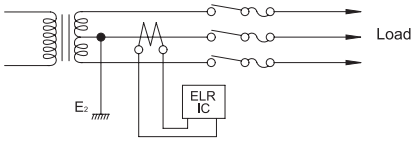
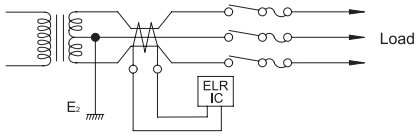
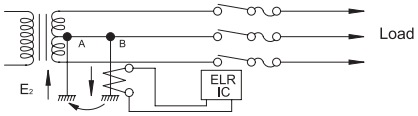
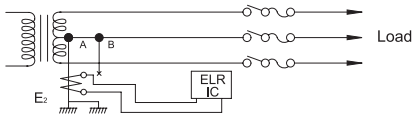
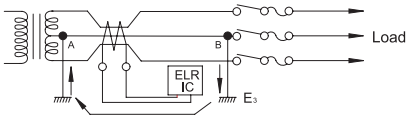
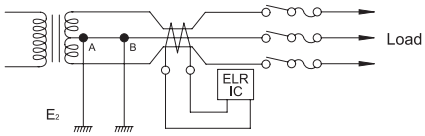
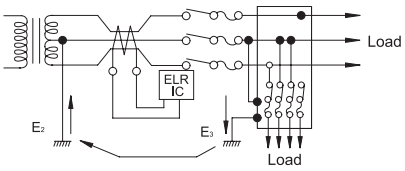
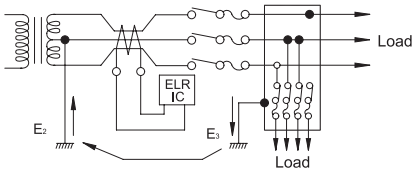
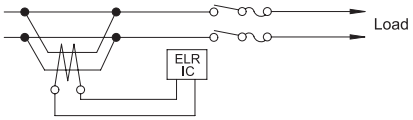
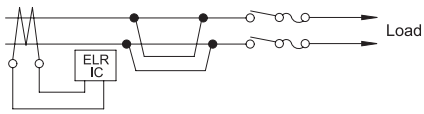
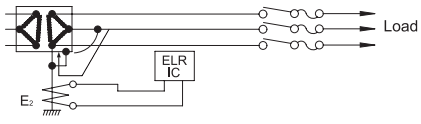
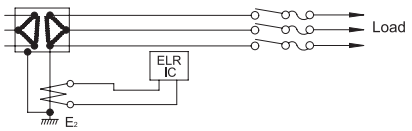


Special Specification

Mold	Item	Use of Relay
Epoxy Mold	65ø, 120ø 150ø, 200ø	HGR, DGR

HOW TO INSTALLATION AND INSPECTION

Note : Incorrect installation of ZCT may result in malfunctioning of relay. Please refer to follwing wiring diagrams

WRONG CONNECTION	RIGHT CONNECTION
1) Load on neutral line will cause malfunctioning 	1) All of two lines of 1ø 2W. three lines of 1ø 3W. three lines of 3ø 3W. and four lines of 3ø 4W should go through ZCT. 
2) Because of load current on neutral line, the current between A–B cause erro operation. The relay may not activate relay operation in cases of leakage. 	2) Cut off line B and provide class 2 grounding as required for ZCT. 
3) As load current is divided between A and B grounding, it will cause missing operation in case of leakage. 	3) Earth the wires before ZCT to (the side of power source). 
4) When neutral line and distribution board line are jointly connected to ZCT. malfunction will be introduced as the example of 3) above. 	4) Provide class 3 grounding seperately for neutral line and distribution board each 
5) Leakage indication lacks accuracy. 	5) Install ZCT correctly 
6) Occurrence of leakage will not activate relay operation.  Even if grounding is intentionally made to frame to frame, the leakage flows directly into to casing grounding without going through ZCT.	6) Grounding of frame should be installed after(in the down stream) the ZCT connection point.  Note : The frames are transformer casing, cubicle enclosure, and structural steel frames.