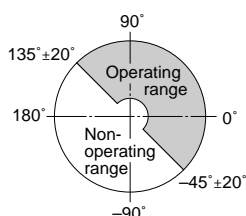


■ **Specifications**

● **Directional ground-fault relays**

Type	QH-DG3 (for receiving circuit)		QH-DG4 *(for branching circuit)
Trip system	Shunt trip, current trip		
Zero-phase voltage setting range	2.5-5-7.5-10-12.5% of zero-phase voltage 3810V at full ground-fault		-
Zero-phase current setting range	0.1-0.2-0.3-0.4-0.6A (ZCT primary side)		
Operating time setting	Insnt.-0.2-0.3-0.4-0.6s		
Operating characteristic	Operating time	±30ms at 130% current setting value -40ms to +0ms at 400% current setting value (when 150% of voltage setting value applied)	
	Zero-phase current	Within ±10% of current setting value (when 150% of voltage setting value applied)	
	Zero-phase voltage	Within ±25% of voltage setting value (when 150% of current setting value applied)	
Indication LED	Operate, zero-phase current/voltage, power		
Resetting method	Auto-manual (selectable by a switch)		
Test button	Provided		
Contact	For shunt trip: 1NO	Making capacity: 10A at 110V AC Breaking capacity: 7.5A at 110V AC (cosφ= 0.4), 0.4A at 125V DC (L/R= 7ms)	
	For current trip: 2PDT	7.5A at 110V AC (cosφ= 0.5)	
	For alarm: 1NO	Making capacity: 1.5A at 110V AC (cosφ= 0.4), 0.1A at 125V DC (L/R= 7ms)	
Rated control voltage	110V AC 50/60Hz		
Frequency	50Hz-60Hz (changeable by a switch)		
Operate phase angle	Non grounded system: Lag 45°±20°, lead 135°±20° PC grounded system: Lag 70°±15°, lead 110°±15°		
Consumed VA	7VA (at operating)		6VA (at operating)
Mass	1.9kg		1.9kg

Operating phase angle (non grounded system)



* The QH-DG4 will function as branching unit for power receiving use QH-DG3. It cannot be used solely.

● **Accessories, sold separately**

Zero-phase current transformers

Description	Primary current (A)	Rated primary voltage (kV)	Dielectric strength	Over-current constant	Type	Mass (kg)
Round-hole through-type	100	3.3/6.6	22kV AC 1 min.	40	ZCT-561A	0.5
	200				ZCT-562A	0.5
	300	50/60Hz common use			ZCT-653	0.8
	400				ZCT-654	0.8
	600				ZCT-906	3.0
Split-toroidal type	100				ZCT-451D	0.9
	400				ZCT-654D	1.2

Zero-phase potential input device

Type	ZPD-1
Structure	Indoor use, epoxy-resin insulator
Rated voltage	7.2kV
Electrostatic capacitance	3 X 250pF
Dielectric strength	Class 6A, 22kV AC (1 minute)
Mass (kg)	3.6kg (1set = 3pcs)