

## Technical specification for 100kV and 15kV High voltage relay

### 1. Technical specification for 100kV, Single pole High Voltage Relay

Sr. No.	Parameter	Specification
1.	Type	Air insulated High voltage relay, 1- Pole, non-enclosed type
2.	Normal operating voltage	65 kV DC (minimum)
3.	Continuous current	150 Amp (minimum)
4.	Numbers of pole	1 pole (Single Pole)
5.	Operation	no-load operation
6.	Operating ambient temperature	10 to 40 deg. C
7.	Test Voltage (1min hold)	a) Between HV contacts : 100 kV DC (minimum) b) Insulation to Ground : 100 kV DC ( minimum )
8.	Mounting position	On a Horizontal platform
9.	Actuator (Operating mechanism)	a) Solenoid b) Operating voltage : 230V, 50Hz
10.	Auxiliary switch / Micro switch to signal the relay position	4 nos. NC/SPDT switch for relay UP position 4 nos. NC/SPDT switch for relay DOWN position (potential free contacts dedicated for user)
11.	Test standard for HV withstand test	HV withstand test method confirming IEC 60060, IEEE 4-2013 and IEEE C37.100
12.	HV relay contact form And required quantity of HV relay	SPNC – 3 nos. SPNO – 2 nos.

### 2. Technical specification for 15kV, Single pole High Voltage Relay

Sr. No.	Parameter	Specification
1.	Type	Air insulated High voltage relay 1-Pole, non-enclosed type
2.	Normal operating voltage	10 kV DC (minimum)
3.	Continuous current	125 Amp (minimum)
4.	Numbers of pole	1 pole (Single Pole)
5.	Operation	no-load operation
6.	Operating ambient temperature	10 to 40 deg. C
7.	Test Voltage (1min hold)	a) Between HV contacts : 15 kV DC (minimum) b) Insulation to Ground : 15 kV DC (minimum)
8.	Mounting position	On a Horizontal platform
9.	Operating mechanism	a) Solenoid b) Voltage : 230V, 50Hz
10.	Auxiliary switch / Micro switch to signal the relay position	4 nos. NC/SPDT switch for relay UP position 4 nos. NC/SPDT switch for relay DOWN position (potential free contacts dedicated for user)
11.	Test standard for HV withstand test	HV withstand test method confirming IEC 60060, IEEE 4-2013 and IEEE C37.100
12.	HV relay contact form And required quantity of HV relay	SPNC – 3 nos. SPNO – 2 nos.