

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. |