

132kV GRID STATION EQUIPMENTS

132kV CIRCUIT BREAKER

Rated Voltage	145kV
Rated Frequency	50Hz
Rated Normal Current	4000A
Rated short - circuit breaking current	40kA
Number of unit per phase	1
Rated power frequency withstand voltage	275kV
Rated Lightning impulse withstand voltage	650kVp
Creep- age distance per pole	3900 mm
NTDC Specification	P-193-2010 (amended to date)



132kV DISCONNECTORS/ISOLATORS

Rated Voltage Ur, rms	145kV
Rated normal current of disconnector	2000A
Rated Frequency	50Hz
Rated Normal Current	4000A
Rated short circuit withstand current for 1 sec	40kA
Rated short circuit withstand current for 3 sec	40kA
1min power frequency withstand voltage	315kV 275kV
Rated Lightning impulse withstand voltage	650kVp & 750kVp
Creep - age distance	4500 mm



132kV CTs

Type of Construction	Paper-oil insulated, hermetically sealed	
Rated Current	100/200 A series or parallel connected	
Rated continuous thermal Current	120%	
Thermal short - time current	40kA for 1s	
Dynamic short - time current	100kA	
Transformer Ratio	2x100/5	
Burden in VA	15	60 30
NTDC Specification	P-90-2012 (amended to date)	

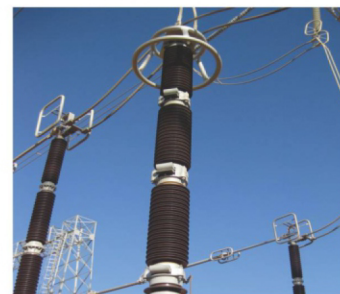


132kV PTs

Rated Primary Voltage Um, kV	145kV
Rated Secondary Voltage Um, k	110kV
Rated Frequency	50Hz
Rated Lightning impulse withstand voltage	650kV
Creep age distance	4495mm
Power frequency withstand voltage (Primary)	275kV
Power frequency withstand voltage (Voltage)	3kV
NTDC Specification	129 2011 (amended to Date)

LIGHTENING ARRESTORS

Type	11kV Lightning Arrestors	66kV Lightning Arrestors	132kV Lightning Arrestors
Designation	YH10W5 -12/38	Y10W5 -60/160	Y10W5 -120/295
Rated Voltage	12kV	60kV	120kV
Nominal Discharge Current	10kA		
Frequency	50Hz		
Creep-age Distance (Phase to earth)	350mm	2248mm	3906mm



11kV NEUTRAL CTs

Standard Applied	IEC 60044.1
Service Condition	Out door
Rated System voltage	11kV
Highest System Voltage	12kV
Rated Frequency	50Hz
Creep age distance	25 mm/kV



11kV CAPACITORS CELLS

Designation	BAM 12/√3-200-1W
Rated Voltage	12/√3V
Rated Frequency	50Hz
Rated Output Qn	200kVAR
Rated Current In	28.86A

