



SSSG12

OUTDOOR SF6 GAS INSULATED SECTIONALIZER

Pole Mounted Sectionalizer is dedicated to serve the purpose of disconnecting the faulty section automatically in conjunction with an upstream Autorecloser circuit breaker in the substation and restoring power to the healthy lines/branches with minimum down time.

Salient Features

- Compact In Size, Light Weight Design and hence Easy to Install and Transport
- SF6 gas Filled Hermetically Sealed Stainless Steel Tank
- Control Unit with Logic Based Programming
- Suitable for Mounting on a Single Pole or on Double Pole Structure
- Latest Technology of Arc Quenching & Short Arcing Time
- Local & Remote Control Options
- Manual & Automated Options

Application

- In Branch / Line in Power Distribution System
- Automatic Isolation of Faulty Section in Case of Permanent Faults and Restoration of Healthy Branches of Distribution System



Technical Specifications	
Description	SSSG 12-16
Rated Voltage	12 kV
Rated Normal Current	630 A
Rated Frequency	50Hz
Rated Short-Time Withstand Current & Duration	16 kA, 3s
Rated Short-Circuit Making Current (peak)	40 kA
Rated Power Frequency Withstand Voltage (one minute)	36 kV
Rated Lightning Impulse Voltage (peak)	95 kVp
Number of Phase	3
Method of Earthing	Solid
Interrupting Medium	SF6 Gas
Insulating Medium	SF6 Gas
Type	Outdoor

Technical Specifications	
Description	SSSG 12-16
Mounting on	Single/Double pole structure
Rated Auxiliary Voltage	110/24V DC
Operating Mechanism	Motor operated spring assisted
Degree of Protection of Gas Tank	IP66
Mainly Active Load Current	630 A
Material of Bushing	Cycloaliphatic epoxy resin
Mechanical Endurance Class	M2
SF6 Rated Pressure	0.14 MPa
Leakage Rate Per Year	<0.1%
Weight (without structure)	120 kg (Approx.)
Dimensions (W×D×H)	1200mm×900mm×1100mm
Reference Standard	IEC 62271-103



Control Unit

- Power Supply to Operate the Sectionalizer
- Multifunction Meter to Monitor – Line Current, Line Voltage, PF, fault & its Type, Duration of Fault and Other Related Data w.r.t. Real Time and Transmit the same through its RS 485 Port MODBUS to the PLC on the Control Unit.
- PLC with its sufficient memory stores these data and at the same time sends these data to the communication protocol

Communication

Every Control Unit is having a communication Modem (leased line/GPRS/3G/GSM/Fibre Optic); hence they are connected to each other and also with auto-recloser and with the integrated SCADA (installed at substation) based on standard communication Protocol IEC-60870-5-104. Moreover, there will be dedicated RS-232C serial port capable of communicating (over IEC-60870-5-101).

Backup

Every control unit is equipped with a rechargeable dry battery of adequate power delivering capacity & along with a battery charger.

- There is a continuous effort at Stelmec to keep abreast of latest technology in line with customer requirements and hence the product specifications are subject to change.
- Products described in this catalogue are manufactured and supplied according to the Certified Management System ISO 9001:2015.