Smart Fault Isolation Device

Fault detection & Sectionalizing Up to 36 KV

SmartOn SFID (Smart Fault Insolating Device) System is useful to minimize SAIDI,SAIFI for quick identification &isolation of faulty section on Distribution lines.

It is an intelligent system that helps utilities to manage the power distribution network efficiently. It can detect and isolate Transient, Permanent Phase & Ground Faults. The system can report FID operation to the user's existing SCADA using industry protocols.

Long overhead lines with too many branches and limited load, it becomes commercially unviable to install expensive solutions.

Technical collaboration with EMT, S. Korea, Sharika presents the unique Lot solution, well integrated with DnetTM Cloud platform or any 3rd party SCADA/DMS

Installation

- Easy installation with supplied brackets
- Suitable for Single / double pole/ Structure mounting Industrial Grade Plug n Play control cabling
- Can be supplied with customized accessories - bird guards, PG Clamps, Covered Conductor tails etc.

Maintenance

- Lowest cost of maintenance
- Rugged yet simple mechanism All parts are site replaceable
- Basic manual drop-out fuse fixtures can be upgraded to fully automated SFID unit at site with some design adaptations.
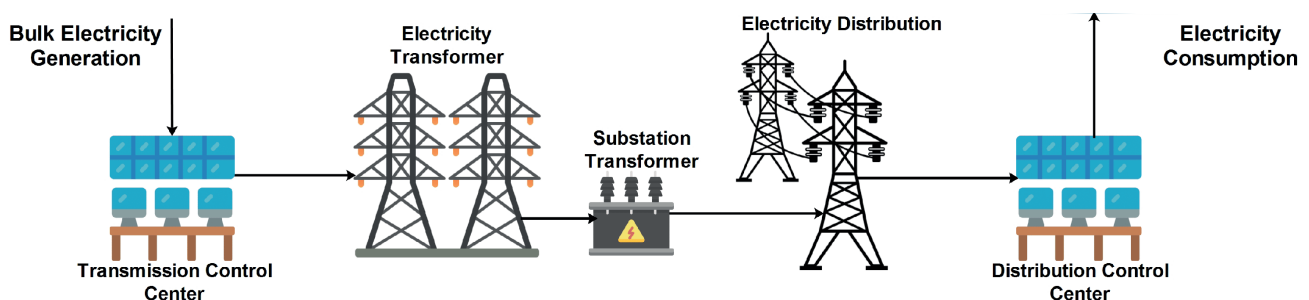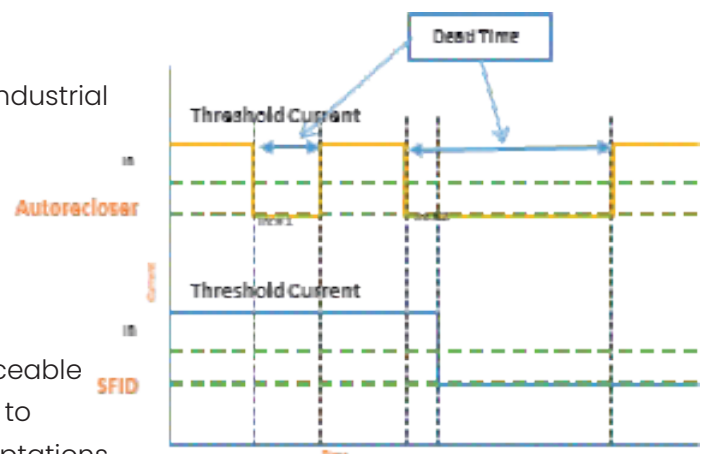
RATINGS

- **Current In:** 100 / 200 A
- **Withstand:** 12.5 kA, 15 cyc
- **BIL:** 110/125/170 KV
- **Altitude:** up to 3000m
- **Voltage:** 12 / 25 / 36 KV

FEATURES

- **Insulation:** Polymer
- **Operation:** Manual / Magnetic ACtiator / Remote / Auto-sectionalizing
- **Self charging battery** with min 2A load current, backed with Super Capacitor

PROTECTION & CONTROL

- Protection functions with fault detection and local indication
- Coordination with upstream Reclosers / CB for effective sectionalizing
- Time or no. of interruptions based coordination
- Local Mechanical or Electrical Control (Open only)
- Remote Control from SCADA / Mobile

TELEMETRY

- Remote communications
- Supporting all industry protocols
- IEC 101 /104
- DNP 3.0
- Modbus
- Ready Integration with Sharika's Dnet Cloud Platform
- Cyber Secured, VPN based remote connectivity through in-built X33TM routers (by niseva)

Rated Voltage (BIL)	KV	15 KV (110)
	KV	27 KV (125/150)
	KV	38 KV (150 /170)
Rated Current	A	100, 200
Rated Frequency	Hz	50 / 60
Minimum Line Current (For Self Charging)	A	1 (2)
FID Open by Fault Trigger	Sec.	Settable Time 1~ 180 sec. (or, Counts 1 ~ 4 in Option)
Reset time :	Sec.	180
Inrush detection time	mS	0 ~ 100
Short time current withstand, 15 cycle	kA	12.5
*Current measurement accuracy:		± 10 % (Option : 5 %)
Temperature range:		- 40°C to +80°C
Surge current withstand		65KA, per ANSI C37.63
Electromagnetic interference		ANSI C37.63
Radio frequency interference		ANSI C37.90.2
Program method		Wireless Programmable
SCADA System Protocol		DNP3.0, or IEC 101, IEC 104
Mobile phone Control and Monitoring		Via SMS Message
GPS system (Option)		Google Map operation
Compatible use with Existing COS body		YES

SmartOn