

RATINGS

Maximum System Voltage	kV	15,5	27	38
Rated Current	A	800	800	800
Rated Frequency	Hz	50/60	50/60	50/60
Life of Mechanical Operation	C-O	10.000	10.000	10.000
Breaking Capacity				
Rated Symmetrical Interrupting Current	kA	16	16	16
Making Current (peak)	kA	40/41.6	40/41.6	40/41.6
Cable Charging Current	kA	10	25	40
Line Charging current	A	2	5	5
Impulse Basic Insulation Level (1.2 x 50us)				
Phase to Earth	kV BIL	110	150	170
Across Interrupter	kV BIL	110	150	170
Power Frequency Insulation Level				
Phase to Earth	kV	50	60	70
Across Interrupter	kV	50	60	70
Operation Control Power	V	120 or 220Vac		
	V	24Vdc		
Ambient temperature		-30 ~ +70		

KEY FEATURES

- » Polymer Insulation - environmentally friendly
- » Magnetic Actuator Mechanim, Vacuum Interrupter
- » Compact design
- » 6 voltage sensors - three source and three load.
- » Phase fault, ground fault, SEF & Under/Over Frequency, Under/Over Voltage.
- » Cold load pickup, Inrush restraints, Phase sync. Hot line tag.
- » 58 TC curves (IEC, ANSI, Recloser-innate, user defined curves).
- » DNP 3.0 Protocol SCADA System.

INSULATING MATERIAL

- » Hydrophobic cycloaliphatic epoxy resin.
- » Lightweight & Compact design for easy handling and installation.
- » Improved performance in heavily polluted areas.
- » Increased weather durability and improved aging.

INTEGRATED SENSORS

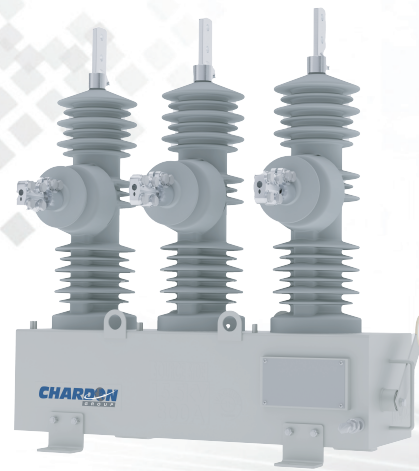
- » 3 Embedded Current Transformer sensors.
- » 6 Embedded Capacitive Voltage Divider sensors.

MECHANISM

- » Magnetic Actuator
- » Simple design.
- » No power required to hold contacts in closed mode.
- » Direct force applied (no linkage between Magnetic Actuator and Vacuum Interrupter).

VACUUM INTERRUPTER

- » High interrupting capacity.
- » Very compact design.
- » Low chopping current, limiting inductive switching overvoltage to safe values.
- » Features an axial magnetic field that minimizes contact erosion and ensures a long service life.



CHARDON
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New recloser factory established in Brazil

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THREE-PHASE AUTOMATIC RECLOSER



PROTECTION

- » Fault detection
- » Definite Time Protection / High Current Trip / Single Shot Operation
- » Time-current curve (IEC, ANSI/IEEE Standard curves, User curves)
- » Cold load pickup
- » Sensitive earth fault detection
- » Directional (bi-directional)
- » Inrush restraints
- » Open line detection (loss of phase)
- » Phase sync check
- » Under/Over voltage
- » Under/Over frequency
- » Auto reclosing sequency
- » 1st: 0,1-1000s, 2nd: 1-1000s, 3rd: 1-1000s, Reset time:3-180 (Unit-second)
- » Multiple protection groups
- » Sectionalizing function
- » Self-healing (optional)
- » Automatic load transfer (Optional)

MEASUREMENT

- » Voltage, Current, Active power, Reactive power, Power factor, Frequency, Energy, Harmonic, Demand Current and Power.

COMMUNICATION PORT

- » RS-232, RS-232/485, Ethernet

EVENTS RECORDING

Type	Event Quantity
Input & Output (I/O)	1023
Function	1023
System	255
Faults	255
PQM	255
Demand (I, P, Q)	1023
Max. (I, P, Q)	1023

WAVEFORM

- » 128 samples, 20 cycles (64 samples/40 cycles, 32 samples/80 cycles, 16 samples/160cycles)
- » COMTRADE file format rule

COUNTER

- » Reset
- » Switch trip, fault detection, PQM, THD

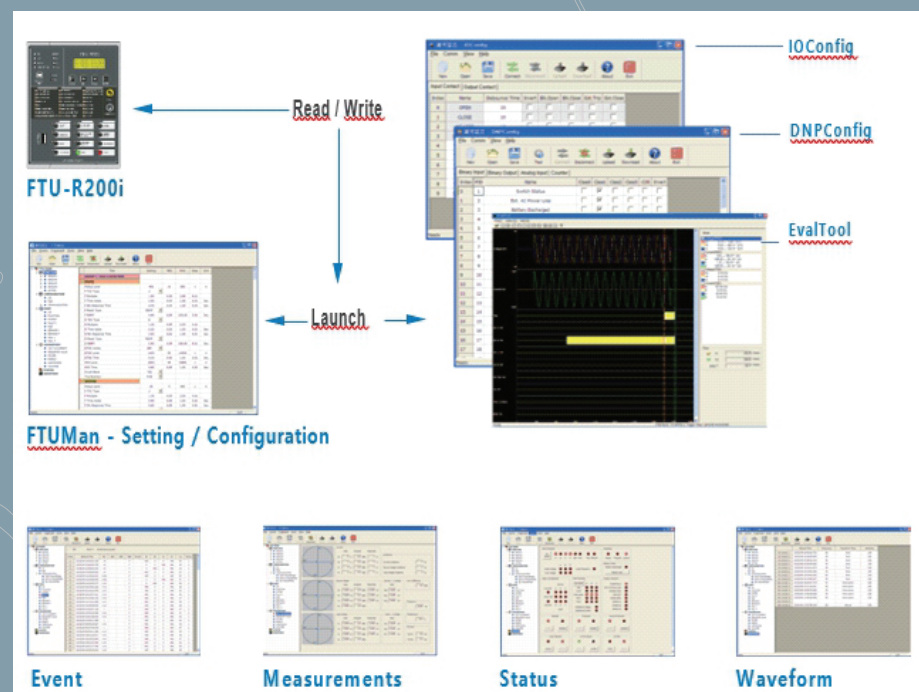


FTU R200i

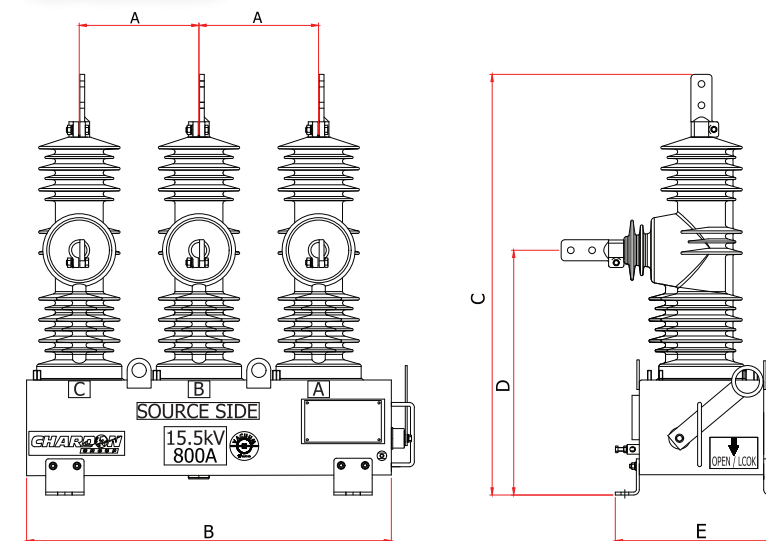


MAINTENANCE SOFTWARE (FTUMan)

- » New interface for configuration & settings
- » Event & Waveform load.
- » Measurement & Status display.
- » Waveform file upload and convert.
- » SCADA monitors protocol data frame between devices.

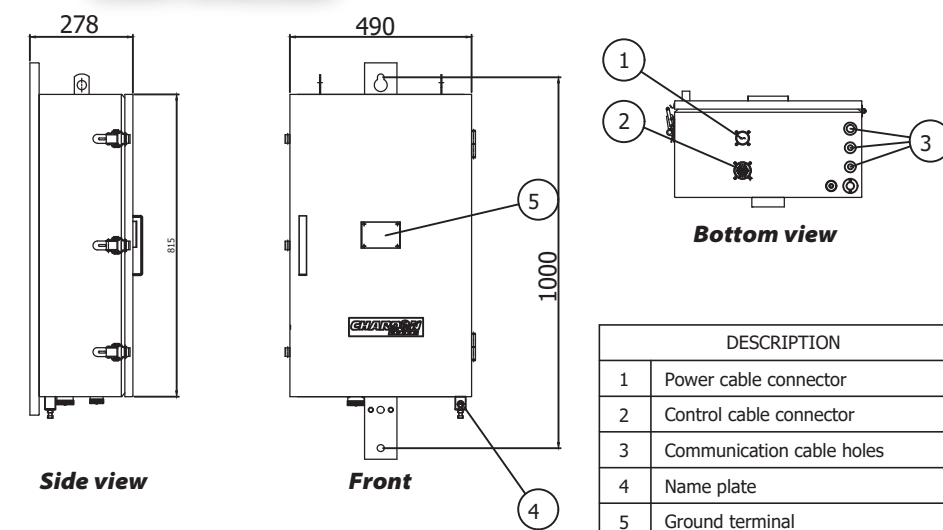


RECLOSER



	A	B	C	D	E	F
15,5 KV	250	762	227	840	514	370
27 KV	290	842	253	910	561	370
38 KV	320	942	370	1080	683	390

CONTROLLER



IN-HOUSE HIGH VOLTAGE TESTING LABORATORY



COMMUNICATION

- » Protocols: DNP3.0, Modbus, IEC60870-5-101/104, IEC61850 (optional)
- » 1 Front USB Port (diagnostics and parameterization), 1 RS232 Port, 1 RS232/485 Port, 1 Ethernet Port, Optical Port (optional)