

R603

Load Break Switch Controller



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R603 is a remote terminal unit for distribution automation which controls and monitors Load Break Switch. It measures various electrical quantities of power line and transmits data to control center through remote communication. The most important benefits are fast calculation, high resolution and complete and user friendly HMI.

Fault

Over Current
Phase
Earth
SEF (Sensitive Earth Fault)
NPS (Negative Phase Sequence)
Cold Load
Synchronism Check
Direction Detection
2 nd Harmonic Block
Open Line Detection
Over / Under Voltage
Over / Under Frequency
Auto Sectionalizing
Analog Hi/Low Alarm

Measurement

Voltage Source/ Load
Current Phase/ Earth
Power Active/ Reactive/ Apparent
Power Factor
Frequency
Temperature

PQM

Sag/ Swell/ Interruption
Displacement Power Factor
Sequence Component
THD Voltage/ Current
Harmonic 2-31 st (Odd/Even) Voltage/ Current
Voltage/ Current Unbalance

Recording

Function Event
Digital I/O Event
System Event
PQM Event
Analog Input Event
Counters Switch Open, Switch Close, ...
Waveform

Additional Functions

4-Quadrant Metering
Analog Alarm
Setting Group

Analog Input

6 Voltage Source/ Load
4 Current 3 phase/ 1 Neutral

Digital Input/ Output

10 Output
5 Input

HMI

160 * 160 Graphic Display (BW)
12 Button Keyboard
27 Led Indicator

Communication

Ethernet – DNP3.0, IEC60870-5-101/104, HMI Software, AES128
Serial RS232 – DNP3.0, IEC60870-5-101/104, AES 128
Serial RS232 – HMI Software
RS485 – Modbus RTU

Hardware

Power Supply
Battery Charger
Battery Test Circuit

Environment Condition

Operating Temperature -25 to +70 °C
Humidity < 95% RH
Altitude < 2000 m

Mechanical Parameters

Dimensions: 315 * 226 * 108 mm
Panel Cut-Out: 318 * 229 mm

Standards

IEC 61000-4-2/ 3,4,5,6,8,11,17,18,29
IEC 61000-6-5
IEC 60068-2-1 / 2,6,27,30
IEC 60255-1 /27,151
IEEE C37.1
CISPR22