Product datasheet

Specifications



Easergy P3U 3CT 1Io 4VT 16DI 8DO 48-230V DI220V 2RJ45

REL52001

Price: 58,088.14 ZAR

Main

mann	
Range Of Product	PowerLogic P3
Product Or Component Type	Protection relay
Relay Application	Universal
Product Reference	P3U30-5AAA3BCAA
Mounting Case Size	30TE
Power Supply	48230 V AC/DC
Measuring Inputs	: 1/5 A CT phase current 3 : 1/5 A CT residual current 1 : 100 V/110 V VT voltage 4
Number Of Sensors	0 temperature sensor(s) 0 arc sensor(s)
Number Of Digital Inputs (Di)	16
Number Of Digital Outputs (Do)	1 watchdog 8
Number Of Analogue Inputs	0
Number Of Analogue Outputs	0
Communication Ports	USB port 1 front RJ45 2 rear
Communication Protocols	IEC 61850 ed. 1 IEC 61850 ed. 2 IEC 60870-5-101 DNP3 TCP Modbus TCP EtherNet/IP
Redundancy Communication Port Protocol	RSTP PRP
Cybersecurity	Port hardening Password protection

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Protection Functions

Phase overcurrent 50/51 Directional phase overcurrent 67 Earth fault overcurrent 50N/51N Directional earth fault 67N Transient earth fault 67NI Capacitor bank unbalance 51C Broken conductor 46 I2/I1 Cold load pick-up Switch ON to fault (SOTF) Breaker failure 50BF Directional active underpower 37P Fault locator 21FL Recloser 79 Phase undercurrent 37 Excessive starting time, locked rotor 48/51LR Motor restart inhibition 66 Capacitor overvoltage 59C Negative sequence overcurrent 46 Overvoltage 59 Undervoltage 27 Positive sequence undervoltage 27P Earth fault overvoltage 59N Underfrequency 81/81N Rate of change of frequency 81R Synchro-check 25 Lockout relay 86 CT supervision 60 VT supervision 60 H2 detection 68H2 H5 detection 68H5 Programmable stages 99 H5 detection Programmable curve

Arc Flash Protection Measu

No

Measurement Functions	Current 3-phase
	Current zero sequence
	Current positive sequence
	Current negative sequence
	Current ratio of negative and positive
	Voltage phase to earth
	Voltage phase to phase
	Voltage zero sequence
	Voltage positive sequence
	Voltage negative sequence
	Voltage ratio of negative and positive
	Short circuit fault reactance
	Fault location current
	Earth fault reactance
	Frequency
	Active power
	RMS active power
	Reactive power
	RMS reactive power
	Apparent power
	RMS apparent power
	Active energy
	Reactive energy Cos φ
	Cos φ Tan φ
	Power angle
	Power factor
	Voltage phasor diagram view
	Current phasor diagram view
	Current 2nd, 15th harmonics with THD
	Voltage 2nd, 15th harmonics with THD
	Voltage interruption
	Condition monitoring CB wear
Control Functions	Switchgear control and monitoring
	Programmable switchgear interlocking
	Local control on single-line diagram
	Local control with I/O keys
	Local/remote control
	2 function keys
	Mobile application with Easergy SmartApp

Web-server Programmable logic

Controllable Switchgear Devices	4 controlled + 8 displayed	
Number Of Setting Groups	4	
Monitoring Functions	Trip circuit supervision 74 Circuit breaker monitoring Relay self-monitoring	
Logs And Records	Event recording Disturbance recording Tripping context	
Switchgear Diagnosis Type	CT/VT supervision ANSI code: 60 CT supervision Trip circuit supervision ANSI code: TCS	
Connections - Terminals	Screw removable (digital input/output) Pin removable (current transformer) Pin removable (voltage transformer)	

Complementary

Operating Threshold	220230 V AC/DC	
Time Synchronisation Protocol	SNTP	
Software Name	EcoStruxure Power Device ESetup Easergy Pro	
Web Server	Embedded HTTP server	
Display Type	LCD 128 x 64 pixels with single line diagram	
Number Of Key	2 customizable	
Local Signalling	4 LEDs 8 LEDs programmable	
Standards	IEC	
Height	169.5 mm	
Width	170 mm	
Depth	205 mm	
Net Weight	2.5 kg maximum	

Environment

Electromagnetic Compatibility	Emission tests conforming to IEC/EN 60255-26 ed. 3 Emission tests class A conforming to CISPR 11 Emission tests class A conforming to CISPR 22 EMC immunity conforming to IEC/EN 60255-26 ed. 3 EMC immunity conforming to EN/IEC 61000-4-18 EMC immunity level 4 conforming to EN/IEC 61000-4-2 EMC immunity level 3 conforming to EN/IEC 61000-4-3 EMC immunity level 3 conforming to EN/IEC 61000-4-3 EMC immunity level 3 conforming to EN/IEC 61000-4-5 EMC immunity level 3 conforming to EN/IEC 61000-4-6 EMC immunity level 3 conforming to EN/IEC 61000-4-6 EMC immunity level 5 conforming to EN/IEC 61000-4-8 EMC immunity conforming to EN/IEC 61000-4-9 EMC immunity conforming to EN/IEC 61000-4-19 EMC immunity conforming to EN/IEC 61000-4-11 EMC immunity conforming to EN/IEC 61000-4-17
Mechanical Robustness	Vibrations (level: class II) conforming to IEC 60255-21-1 Vibrations: Fc conforming to IEC 60068-2-6 Shocks (level: class II) conforming to IEC 60255-21-2 Shocks: Ea conforming to IEC 60068-2-27 Seismic tests method A (level: class II) conforming to IEC 60255-21-3 Bumps (level: class II) conforming to IEC 60255-21-2 Bumps: Ea conforming to IEC 60068-2-27

Climatic Withstand	Exposure to dry heat Bb tests conforming to EN/IEC 60068-2-2 Exposure to cold Ad tests conforming to EN/IEC 60068-2-1 Exposure to damp heat in service Db tests conforming to EN/IEC 60068-2-30 Exposure to damp heat in service Cab tests conforming to EN/IEC 60068-2-78	
Ambient Air Temperature For Operation	-4065 °C	
Ambient Air Temperature For Storage	-4070 °C	
Ip Degree Of Protection	IP54 conforming to IEC 60529	
Relative Humidity	095 %, without condensation	
Maximum Operating Altitude	2000 m	
Protective Treatment	Conformal coating	

Packing Units

-	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	26 cm
Package 1 Width	21.5 cm
Package 1 Length	31.5 cm
Package 1 Weight	3.148 kg

Contractual warranty

Warranty

Up to 10 years extended warranty (Standard warranty 2 years. Please check with your local SE representative for extended warranty availability and conditions)

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency

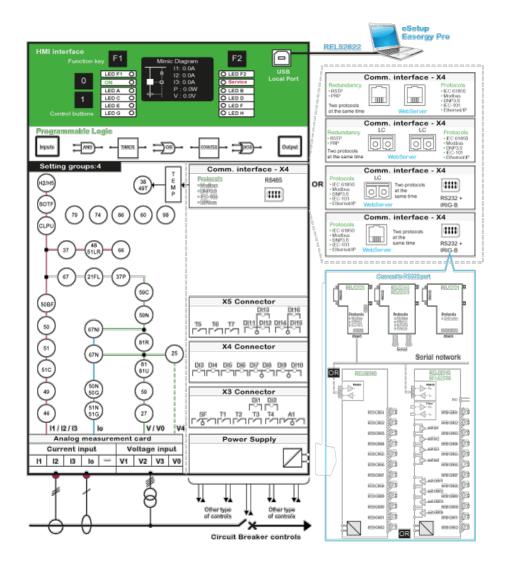
Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
Circularity Profile	End of Life Information	

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Connections and Schema

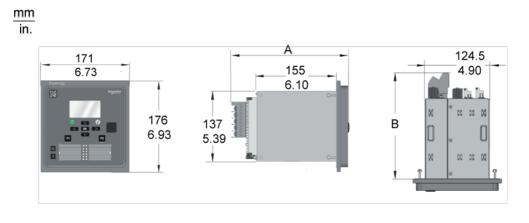
Functional View



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Dimensions Drawings

Base Unit Dimensions



	A	В
With screw connector	214 mm/8.43"	192 mm/7.6"
With ring-lug connector	226 mm/8.90"	204 mm/8.0"