

universal protection relay, PowerLogic P3U30, 4L ringlug, 4U, 16DI/8DO, Uaux: 48-230V, DI: 110-230V, 2 x RJ-45

REL52008

Main

Range of product	PowerLogic P3
Product or component type	Protection relay
Relay application	Universal
product reference	P3U30-6AAA2BCAA
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 Digital Inputs (DI)	16
number of analogue inputs	0
number of Digital Outputs (DO)	1 watchdog 8
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

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

Negative sequence overcurrent 47

Programmable stages 99

Programmable curve

Arc flash protection

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

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	
	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)	
	Ring lugs removable (current transformer)	
	Pin removable (voltage transformer)	

Complementary

Operating threshold	110230 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

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	
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	

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 4 conforming to EN/IEC 61000-4-4 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 61000-4-8 EMC immunity conforming to EN/IEC 61000-4-9 EMC immunity conforming to EN/IEC 61000-4-9 EMC immunity conforming to EN/IEC 61000-4-11 EMC immunity conforming to EN/IEC 61000-4-17
Ambient air temperature for operation	-4065 °C
IP degree of protection	IP54 conforming to IEC 60529
maximum operating altitude	2000 m
Protective treatment	Conformal coating
Relative humidity	095 %, without condensation

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	3.168 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)



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

∅ Environmental footprint

Environmental Disclosure

Product Environmental Profile

Use Better

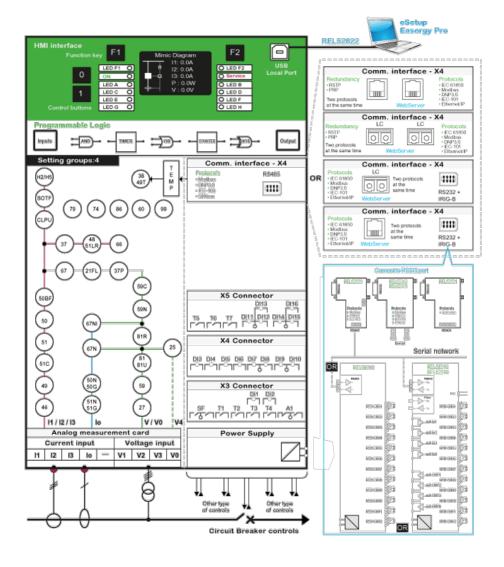
⊗ Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	7fd15df9-a702-4a28-ad01-afb36a7b785f
China RoHS Regulation	China RoHS declaration

Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Take-back	No

Connections and Schema

Functional View

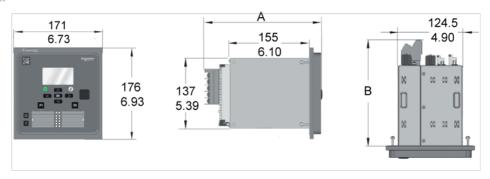


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Dimensions Drawings

Base Unit Dimensions

 $\frac{\text{mm}}{\text{in.}}$



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