Product data sheet

Specifications



universal protection relay, PowerLogic P3U 3CT 1Io 14DI 11DO 48-230V DI110 RS485 RL

REL53152

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 2,313.18 USD

Main

Range of Product	PowerLogic P3	
Product or Component Type	Protection relay	
Relay application	Universal	
product reference	P3U30-6AAA2BGAB	
Mounting case size	30TE	
Device mounting	Flush	
Mounting Mode	Flush mounting	
power supply	2448 V AC/DC	
measuring inputs	3 1/5 A CT phase current 1 1/5 A CT residual current 4 100 V/110 V VT voltage	
number of Digital Inputs (DI)	14	
number of analogue inputs	0	
number of Digital Outputs (DO)	11 DO 1 watchdog	
number of analogue outputs	0	
communication ports	Front USB port 1 Rear RS485 1	
communication protocols	IEC 60870-5-101 IEC 60870-5-103 DNP3 Modbus RTU DeviceNet SPAbus	
Cybersecurity	Password protection Port hardening	

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

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 Cold load pick-up 68H2 H2 detection 68H2 H5 detection 68H5 Breaker failure 50BF Switch ON to fault (SOTF) 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 Switch ON to fault (SOTF) 50/51 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 Programmable stages 99 8 Programmable curve 99 8

Arc flash protection

No

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
Frequency phasor diagram view
Reactive power
RMS reactive power Apparent power
RMS apparent power
Active power 2nd, 15th harmonics with THD
Active energy
Reactive energy
Cos φ
Tan φ Power angle
RMS active power 3-phase
Power factor
Voltage phasor diagram view
Current phasor diagram view
Current 2nd, 15th harmonics with THD Voltage 2nd, 15th harmonics with THD
Condition monitoring CB wear
Voltage interruption
Reactive power zero sequence
RMS reactive power positive sequence
Apparent power negative sequence
RMS apparent power ratio of negative and positive Active energy phase to earth
Reactive energy zero sequence
Cos φ positive sequence
Tan ϕ ratio of negative and positive
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
4 controlled + 8 displayed
4
Trip circuit supervision 74
Circuit breaker monitoring
Relay self-monitoring
Event recording
Disturbance recording
Tripping context
CT supervision TCS
CT supervision TCS Trip circuit supervision TCS
Trip circuit supervision TCS

Complementary

Operating threshold

24 V AC/DC

Time synchronisation protocol	SNTP	
Software name	ESetup Easergy Pro virtual simulation test Easergy SmartApp	
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	
Height	6.7 in (169.5 mm)	
Width	6.7 in (170 mm)	
Depth	8.07 in (205 mm)	
Net weight	5.5 lb(US) (2.5 kg) maximum	

Environment

climatic withstand	Exposure to dry heat Bb EN/IEC 60068-2-2	
	Exposure to cold Ad EN/IEC 60068-2-1	
	Exposure to damp heat in service Db EN/IEC 60068-2-30	
	Exposure to damp heat in service Cab EN/IEC 60068-2-78	
Mechanical robustness	Vibrations class II) IEC 60255-21-1	
	VibrationsFc IEC 60068-2-6	
	Shocks class II) IEC 60255-21-2	
	ShocksEa IEC 60068-2-27	
	Seismic tests method A class II) IEC 60255-21-3	
Electromagnetic compatibility	Emission tests IEC/EN 60255-26 ed. 3	
	Emission tests class A CISPR 11	
	Emission tests class A CISPR 22	
	EMC immunity IEC/EN 60255-26 ed. 3	
	EMC immunity EN/IEC 61000-4-18	
	EMC immunity level 4 EN/IEC 61000-4-2	
	EMC immunity level 3 EN/IEC 61000-4-3	
	EMC immunity level 4 EN/IEC 61000-4-4	
	EMC immunity level 3 EN/IEC 61000-4-5	
	EMC immunity level 3 EN/IEC 61000-4-6	
	EMC immunity EN/IEC 61000-4-8	
	EMC immunity level 5 EN/IEC 61000-4-9	
	EMC immunity EN/IEC 61000-4-29	
	EMC immunity EN/IEC 61000-4-11	
	EMC immunity EN/IEC 61000-4-17	
Ambient air temperature for operation	-40149 °F (-4065 °C)	
IP degree of protection	IP54 front IEC 60529	
maximum operating altitude	6561.68 ft (2000 m)	
Protective treatment	Conformal coating	
Relative humidity	095 %, without condensation	

Ordering and shipping details

Category	US1PL1S11405
Discount Schedule	PL1S
GTIN	3606487107019
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1

PCE

Number of Units in Package 1	1
Package 1 Height	15.75 in (40 cm)
Package 1 Width	11.81 in (30 cm)
Package 1 Length	11.81 in (30 cm)
Package 1 Weight	8.4 lb(US) (3.8 kg)

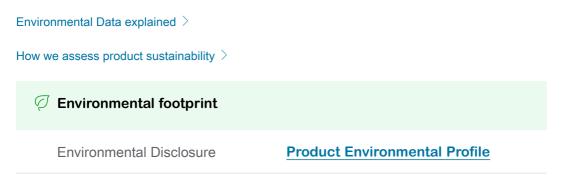
Contractual warranty

Warranty

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

Environmental Data

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.



Use Better

S Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Νο
EU RoHS Directive	Compliant with Exemptions
REACh Regulation	REACh Declaration
China RoHS Regulation	China RoHS declaration

Use Again

\bigcirc 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.