Specifications



REL52019 discontinued. To order it, click on blue Product Selector button, configure P3U30, and use its output xml file

REL52019

Main

Mann	
Range Of Product	Easergy P3
Product Or Component Type	Protection relay
Relay Application	Universal
Product Reference	P3U30-5AAA1BFAA
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 Digital Outputs (Do)	1 watchdog 8
Number Of Analogue Outputs	0
Type Of Temperature Module Connection	Copper cable external module Fiber optic cable external module
Communication Ports	USB port 1 front LC 1 rear RS232 1 rear
Communication Protocols	IEC 61850 ed. 1 IEC 61850 ed. 2 IEC 60870-5-101 IEC 60870-5-103 DNP3 DNP3 TCP Modbus RTU Modbus RTU Modbus TCP EtherNet/IP Modbus TCP master Profibus DP SPAbus
Cybersecurity	Port hardening

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 H5 detection 68H5 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		
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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	24230 V AC/DC	
Time Synchronisation Protocol	IRIG-B 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 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 61000-4-5 EMC immunity level 3 conforming to EN/IEC 61000-4-6 EMC immunity level 5 conforming to EN/IEC 61000-4-8 EMC immunity level 5 conforming to EN/IEC 61000-4-9 EMC immunity conforming to EN/IEC 61000-4-29 EMC immunity conforming to EN/IEC 61000-4-11 EMC immunity conforming to EN/IEC 61000-4-11
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	
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	21.5 cm
Package 1 Width	26 cm
Package 1 Length	31.5 cm
Package 1 Weight	3.19 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

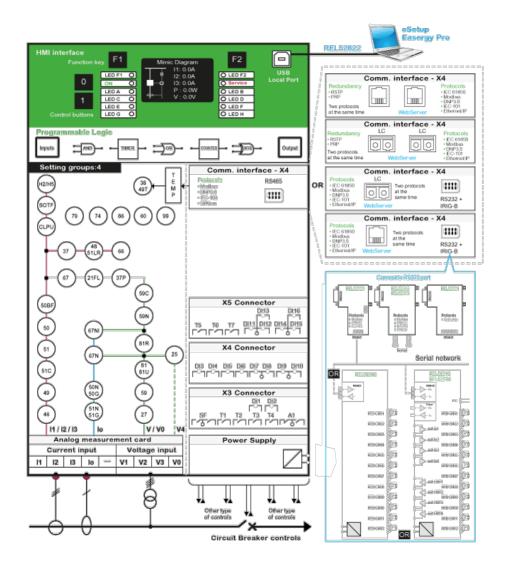
Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste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

Product datasheet

REL52019

Connections and Schema

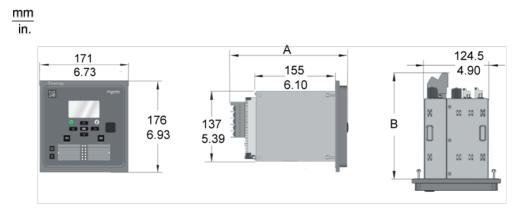
Functional View



Product datasheet

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"