

REL52078 discontinued. To order it, click on blue Product Selector button, configure P3U30, and use its output xml file

REL52078

Main

Range of product	Easergy P3
Product or component type	Protection relay
Relay application	Universal
product reference	P3U30-7AAA1CBAA
Device mounting	Flush
power supply	48230 V AC/DC
measuring inputs	: LPCT phase current 3 : 1/5 A CT residual current 1 : LPVT voltage 5
number of Digital Inputs (DI)	16
number of Digital Outputs (DO)	8 DO 1 watchdog
number of analogue outputs	0
communication ports	USB port 1 front RS485 1 rear
communication protocols	IEC 60870-5-101 IEC 60870-5-103 DNP3 Modbus RTU DeviceNet SPAbus
Cybersecurity	Password protection Port hardening

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

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

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

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

Condition monitoring CB wear

Voltage interruption

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

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 supervision
	Trip circuit supervision ANSI code: TCS
Connections - terminals	Screw removable (digital input/output)
	Pin removable (current transformer)
	Pin removable (voltage transformer)

Operating threshold	24 V AC/DC
Display type	LCD 128 x 64 pixels with single line diagram
Number of key	2 customizable
Local signalling	4 LEDs 8 LEDs programmable
Height	169.5 mm
Width	170 mm
Depth	205 mm
Net weight	2.5 kg maximum

Environment

climatic withstand	Exposure to dry heat Bd 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
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 conforming to IEC 60255-22-1
	EMC immunity level 4 conforming to EN/IEC 61000-4-2
	EMC immunity conforming to IEC 60255-22-2
	EMC immunity level 3 conforming to EN/IEC 61000-4-3
	EMC immunity conforming to IEC 60255-22-3
	EMC immunity level 4 conforming to EN/IEC 61000-4-4
	EMC immunity conforming to IEC 60255-22-4
	EMC immunity level 3 conforming to EN/IEC 61000-4-5
	EMC immunity conforming to IEC 60255-22-5
	EMC immunity level 3 conforming to EN/IEC 61000-4-6
	EMC immunity conforming to IEC 60255-22-6
	EMC immunity 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 61000-4-17
	EMC immunity conforming to IEC 60255-27
	EMC immunity class III conforming to IEC 60255-5
	EMC immunity conforming to EN/IEC 60255-1
Ambient air temperature for operation	-4065 °C
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	29.0 cm
Package 1 Width	30.0 cm
Package 1 Length	40.0 cm
Package 1 Weight	3.51 kg

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.

Environmental Data explained >

How we assess product sustainability >

Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Compliant with Exemptions
REACh Regulation	REACh Declaration
China RoHS Regulation	China RoHS declaration

Use Again

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