



Main

Range of product	Easergy P3
Product or component type	Protection relay
Relay application	Feeder
Device short name	P3F30-DGIAA-DAENA-BA
[Us] rated supply voltage	24...48 V DC
Type of measurement	Current and voltage
Input current	1 current input CT...1/0.2 A CSH 1 current input CT...1/5 A CT
Input type	3 current input CT...1/5 A for phase current 4 voltage input VT for voltage
Number of sensors	4 arc sensor(s)
Number of inputs	16
Operating threshold	24...230 V AC/DC
Number of outputs	1 watchdog 9
Integrated connection type	Front: USB port with 1 connector Rear: RJ45 with 2 connector
Protection type	Cold load pick-up Switch ON to fault (SOTF) Phase overcurrent ANSI:50/51 Directional phase overcurrent ANSI:67 Earth fault overcurrent ANSI:50N/51N Directional earth fault ANSI:67N Transient earth fault ANSI:67NI Capacitor bank unbalance ANSI:2 Broken conductor ANSI:46 I2/I1 Breaker failure ANSI:50BF Directional active underpower ANSI:37P Recloser ANSI:79 Negative sequence overcurrent ANSI:46 Overvoltage ANSI:59 Undervoltage ANSI:27 Positive sequence undervoltage ANSI:27P Earth fault overvoltage ANSI:59N Underfrequency ANSI:81/81N Rate of change of frequency ANSI:81R Synchro-check ANSI:25 Lockout relay ANSI:86 H2 detection H5 detection

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

	Programmable stages ANSI:99 Programmable curve
Single line diagram	6 controlled + 2 monitored objects
Control and monitoring type	8 programmable stages
Monitoring function	Trip circuit supervision ANSI:74 Circuit breaker monitoring Relay self-monitoring
Network and machine diagnosis type	Fault locator 21FL Tripping context Event recording Disturbance recording
Control type	Local control on single-line diagram Local control with I/O keys Local/Remote control 2 function keys Custom logic (logic equations) Mobile application Web-server Programmable switchgear interlocking Switchgear
Number of devices	6
Switchgear diagnosis type	CT supervision CT/VT supervision ANSI:60 Trip circuit supervision ANSI:TCS
Type of measurement	Reactive energy Short circuit fault reactance Earth fault reactance RMS active power RMS reactive power RMS apparent power Cos ϕ Tan ϕ Power angle Voltage interruption 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 Current 2nd, 15th harmonics with THD Voltage 2nd, 15th harmonics with THD Phasor diagram of currents or voltages Condition monitoring CB wear Frequency Active power Power factor Active energy Reactive power Apparent power
Communication port protocol	DNP3 Modbus RTU IEC 61850 ed. 2 Modbus TCP IEC 61850 ed. 1 IEC 60870-5-101 IEC 60870-5-103 DNP3 over ethernet Ethernet/IP DeviceNet Profibus DP SPABus RSTP redundancy protocol PRP redundancy protocol

Complementary

Setting	4
Cybersecurity	Port hardening Password protection
Local signalling	16 LEDs programmable 2 LEDs
Display resolution	128 x 128 pixels
Display type	LCD
Software name	Easergy SmartApp ESetup Easergy Pro virtual simulation test
Connections - terminals	Screw fixed
Time synchronisation protocol	SNTP
Web server	Embedded HTTP server

Environment

IP degree of protection	IP54 conforming to IEC 60529
Operating altitude	2000 m
Protective treatment	Conformal coating
Standards	IEC
Ambient air temperature for operation	-40...60 °C
Ambient air temperature for storage	-40...70 °C
Relative humidity	0...95 % without condensation
Height	176 mm
Width	270 mm
Depth	230 mm
Product weight	4.2 kg maximum

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1741 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available Product environmental
Product end of life instructions	Available End of life manual

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