

Product data sheet

Specifications



feeder protection relay, PowerLogic
P3F30 3CT 2Io ringlug 4VT 6DI
10DO 110-230V DI110V 2OBIO
5ARC RS485 RJ45 ANSI

REL52124

! Discontinued

! Discontinued on: Feb 28, 2024

! End-of-service on: Mar 22, 2024

Product availability: Stock - Normally stocked in distribution facility

Main

Range Of Product	PowerLogic P3
Product Or Component Type	Protection relay
Relay Application	Feeder
Product Reference	P3F30-CCGAD-DA1FA-BBAAB
Mounting Case Size	30TE
Device Mounting	Flush
Power Supply	48...230 V AC/DC
Measuring Inputs	3 1/5 A CT phase current 1 5/1 A CT residual current 1 1/0.2 A CT residual current 4 100 V/110 V VT voltage
Number Of Sensors	0 temperature sensor(s) 0 arc sensor(s)
Number Of Digital Inputs (Di)	6
Number Of Digital Outputs (Do)	10 DO 1 watchdog
Number Of Analogue Inputs	0
Number Of Analogue Outputs	0
Communication Ports	Front USB port 1 Rear RJ45 1 Rear RS485 1
Communication Protocols	IEC 61850 ed. 1 IEC 61850 ed. 2 IEC 60870-5-101 DNP3 TCP Modbus TCP EtherNet/IP 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	Fault locator 21FL Synchro-check 25 Undervoltage 27 Directional active underpower 37P Broken conductor 46BC Thermal overload protection 49 Earth fault overcurrent 50N/51N Phase overcurrent 50/51 Breaker failure 50BF Switch ON to fault (SOTF) Capacitor bank unbalance 51C Voltage-restrained overcurrent 51V Capacitor overvoltage 59C Overvoltage 59 Earth fault overvoltage 59N Directional phase overcurrent 67 Directional earth fault 67N Transient earth fault 67NI H2 detection 68H2 H5 detection 68H5 Recloser 79 Underfrequency 81/81N Rate of change of frequency 81R Lockout relay 86 Programmable stages 99 Programmable curve Cold load pick-up
Arc Flash Protection	Yes
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	3 controlled + 5 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 Trip circuit supervision TCS
Connections - Terminals	Screw removable (digital input/output) Ring lugs fixed (current transformer) Pin removable (voltage transformer)

Complementary

Operating Threshold	110 V AC/DC
Time Synchronisation Protocol	SNTP
Web Server	Embedded HTTP server
Display Type	LCD 128 x 128 pixels with single line diagram LCD 128 x 128 pixels with ANSI symbols
Number Of Key	2 customizable
Local Signalling	2 LEDs 16 LEDs programmable
Height	6.93 in (176 mm)
Width	10.63 in (270 mm)
Depth	9.06 in (230 mm)
Net Weight	9.26 lb(US) (4.2 kg) maximum

Environment

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 IEC 60255-22-1 EMC immunity level 4 EN/IEC 61000-4-2 EMC immunity IEC 60255-22-2 EMC immunity level 3 EN/IEC 61000-4-3 EMC immunity IEC 60255-22-3 EMC immunity level 4 EN/IEC 61000-4-4 EMC immunity IEC 60255-22-4 EMC immunity level 3 EN/IEC 61000-4-5 EMC immunity IEC 60255-22-5 EMC immunity level 3 EN/IEC 61000-4-6 EMC immunity IEC 60255-22-6 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 EMC immunity IEC 60255-27 EMC immunity class III IEC 60255-5 EMC immunity EN/IEC 60255-1
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
Climatic Withstand	Exposure to dry heat Bd 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
Ambient Air Temperature For Operation	-40...149 °F (-40...65 °C)
Ambient Air Temperature For Storage	-40...158 °F (-40...70 °C)

Ip Degree Of Protection	IP54 IEC 60529
Relative Humidity	0...95 %, without condensation
Maximum Operating Altitude	6561.68 ft (2000 m)
Protective Treatment	Conformal coating

Ordering and shipping details

Category	US1PL1S11405
Discount Schedule	PL1S
Gtin	3606481499974
Returnability	No
Country Of Origin	US

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	13.00 in (33.02 cm)
Package 1 Width	13.00 in (33.02 cm)
Package 1 Length	16.50 in (41.91 cm)
Package 1 Weight	13.27 lb(US) (6.02 kg)