

Product data sheet

Characteristics

REL52052

Easergy P3U 3CT 1Io ringlug 1VT 8DI 8DO 48-230V DI110V 2RJ45 ANSI

Product availability: Stock - Normally stocked in distribution facility

Price*: 2276.56 USD



Main

Range of Product	Easergy P3
Product or Component Type	Protection relay
Relay application	Universal
Device short name	P3U20-6AAA2AHAB
Device mounting	Flush
[Us] rated supply voltage	48...230 V AC/DC
Input type	3 1/5 A CT phase current 1 1/5 A CT residual current 1 100 V/110 V VT voltage
Number of sensors	0 temperature 0 arc
Digital input number	8.0
Number of Outputs	8 DO 1 watchdog
Analogue input number	0
Analogue output number	0
Integrated connection type	Front USB port 1 Rear RJ45 2
Communication port protocol	IEC 61850 ed. 1 IEC 61850 ed. 2 IEC 60870-5-101 DNP3 TCP Modbus TCP EtherNet/IP
Redundancy communication port protocol	RSTP PRP
Cybersecurity	Password protection Port hardening

Protection type	Phase overcurrent 50/51 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) Recloser 79 Phase undercurrent 37 Excessive starting time, locked rotor 48/51LR Motor restart inhibition 66 Capacitor overvoltage 59C Negative sequence overcurrent 46 Earth fault overvoltage 59N Rate of change of frequency 81R Lockout relay 86 CT supervision 60 Programmable stages 99 Programmable curve
Arc flash protection	No
Type of measurement	Current 3-phase Current zero sequence Current positive sequence Current negative sequence Current ratio of negative and positive Voltage zero sequence Earth fault reactance Frequency Current phasor diagram view Current 2nd, 15th harmonics with THD Condition monitoring CB wear
Control type	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
Single line diagram	4 controlled + 4 displayed
Setting	4
Monitoring function	Trip circuit supervision 74 Circuit breaker monitoring Relay self-monitoring
Network and machine diagnosis type	Event recording Disturbance recording Tripping context
Switchgear diagnosis type	CT supervision Trip circuit supervision TCS
Connections - terminals	Screw removable (digital input/output) Pin removable (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 LCD
Number of key	2 customizable
Local signalling	4 LEDs 8 LEDs programmable
Height	6.67 In (169.5 mm)

Width	6.69 In (170 mm)
Depth	8.07 In (205 mm)
Net weight	5.51 Lb(US) (2.5 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
Environmental characteristic	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 conforming to IEC 60529
Relative humidity	0...95 %, without condensation
Operating altitude	6561.68 ft (2000 m)
Protective treatment	Conformal coating

Ordering and shipping details

Category	11405-EASERGY P3 PROTECTIVE RELAYS
Discount Schedule	PL1S
GTIN	3606481465429
Returnability	No
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.42 In (29.0 cm)
Package 1 Width	11.81 In (30.0 cm)
Package 1 Length	15.75 In (40.0 cm)
Package 1 Weight	7.74 Lb(US) (3.51 kg)

Product Life Status : **Commercialised**