

transformer protection relay, PowerLogic P3T32 6CT 3lo ringlug 4VT 6DI 10DO 110-230V DI110V 3BIO 6ARC RS485 RJ45 ANSI

REL52131

Product availability: Stock - Normally stocked in distribution facility

Price\*: 6,155.69 USD

#### Main

Range of Product	PowerLogic P3
Product or Component Type	Protection relay
Relay application	Transformer
product reference	P3T32-CBG1A-DA1FA-BBAAB
Mounting case size	30TE
Device mounting	Flush
Mounting Mode	Flush mounting
power supply	48230 V AC/DC
measuring inputs	6 1/5 A CT phase current 2 5/1 A CT residual current 1 1/0.2 A CT residual current 4 100 V/110 V VT voltage
number of Digital Inputs (DI)	6
number of analogue inputs	0
number of Digital Outputs (DO)	10 DO 1 watchdog
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

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Port hardening

protection functions Overfluxing (V/Hz) 24 Synchro-check 25 Undervoltage 27 Directional active underpower 32 Negative sequence overcurrent 46 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 Capacitor overvoltage 59C Overvoltage 59 Earth fault overvoltage 59N Restricted earth fault 64REF Directional phase overcurrent 67 Directional earth fault 67N Magnetising inrush detection 68F2 H5 detection 68H5 Underfrequency 81/81N Rate of change of frequency 81R Lockout relay 86 Two-winding transformer differential 87T Programmable stages 99 8 Programmable curve Cold load pick-up CT supervision 60 VT supervision 60FL Arc flash protection Yes **Relay Type** Differential current relay 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 Programmable logic controllable switchgear devices 3 controlled + 5 displayed number of setting groups

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
Software name	ESetup Easergy Pro virtual simulation test Easergy SmartApp
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	6.9 in (176 mm)
Width	10.6 in (270 mm)
Depth	9.06 in (230 mm)
Net weight	9.3 lb(US) (4.2 kg) maximum

### **Environment**

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	
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	

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
Ambient air temperature for operation	-40149 °F (-4065 °C)
IP degree of protection	IP54 front IEC 60529
maximum operating altitude	6561.68 ft (2000 m)
Protective treatment	Conformal coating
Relative humidity	095 %, without condensation

### Ordering and shipping details

Category	US1PL1S11405
Discount Schedule	PL1S
GTIN	3606481465658
Returnability	No
Country of origin	FI

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	15.75 in (40 cm)
Package 1 Width	11.81 in (30 cm)
Package 1 Length	11.81 in (30 cm)
Package 1 Weight	10.1 lb(US) (4.6 kg)

### **Contractual warranty**

Warranty Up to 10 years (Standard warranty 2 years. Please check with your local SE

representative for extended warranty availability and conditions)



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 footprint	
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**

○ Repack and remanufacture	
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

