Specifications



Protection and control relay, PowerLogic P7, motor standard, 11CT, 7VT, 24BI, 20BO, 110-250V, ethernet RJ45

REL72508

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 8,266.13 USD

Main

Range of Product	PowerLogic P7	
Product or Component Type	Protection and control relay	
Relay application	Motor application and bay control	
product reference	P7	
Mounting case size	40TE	
Device mounting	Flush	
Mounting Support	19" rack	
Mounting Mode	Flush mounting Rack-mounted	
power supply	110250 V DC 110250 V AC 50/60 Hz	
measuring inputs	10 CT 1/5 A 1 CT 1 A 7 VT	
number of Digital Inputs (DI)	24	
number of analogue inputs	8 RTD optional	
number of Digital Outputs (DO)	20 1 watchdog	
type of temperature module connection	2 twisted, type A, shielded wires (RS485)	
communication ports	1 CAN port 1 Ethernet TCP/IP 2 SFP ports 1 USB port 1 COM serial link	
communication protocols	Modbus serial and TCP DNP3 serial and TCP IEC 61850 Ed 2.1 IEC 61869-9 IEC 61850-9-2 LE	
Redundancy communication port protocol	HSR PRP RSTP Failover	

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

Life Is On Schneider

Cybersecurity	IEC 62443 SL2
, , , , , , , , , , , , , , , , , , ,	LDAP
	RADIUS based user authentication
	Port hardening
	Role-based access control
	Secure boot
	Security log
	Syslog protocol support Secured communication with assciated tools
	Password protection
	Firmware signature
	Client IP address filter
	Pre-login banner
	Security policy management
protection functions	Phase overcurrent 50/51
	Ground fault protection 50N/51N Sensitive earth fault overcurrent 50G/51G
	Negative sequence overcurrent 46
	Inrush detection 68
	Phase undercurrent 37
	Undervoltage 27
	Overvoltage 59
	Positive sequence undervoltage 47
	Overfrequency 810
	Underfrequency 81U High impedance differential 64REF
	Motor differential 87M
	Thermal overload for machines 49
	Temperature monitoring (8 or 16 RTDs) 38/49T
	Startup motoring 48
	Locked rotor 51LR
	Motor restart inhibition 66
	Voltage check 47
	Overspeed 12
	Underspeed (2 set points) 14 Field loss (underimpedance) 40
	Underimpedance 21
	Out of step 78PS
	CT supervision 60
	VT supervision 60FL
	Breaker failure 50 BF
	Programmable logic 60FL
measurement functions	Current 3-phase
	RMS current 3-phase
	Current sequence
	Current 1-phase
	RMS current 1-phase
	Voltage 3-phase
	RMS voltage 3-phase
	Voltage sequence
	Voltage 1-phase
	Voltage 1-phase RMS voltage 1-phase
	Voltage 1-phase RMS voltage 1-phase Power minimum
	Voltage 1-phase RMS voltage 1-phase Power minimum Power factor 3-phase
	Voltage 1-phase RMS voltage 1-phase Power minimum
	Voltage 1-phase RMS voltage 1-phase Power minimum Power factor 3-phase Active power fundamental frequency Apparent power fundamental frequency Reactive power fundamental frequency
	Voltage 1-phase RMS voltage 1-phase Power minimum Power factor 3-phase Active power fundamental frequency Apparent power fundamental frequency Reactive power fundamental frequency RMS active power 1-phase
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control functions	Voltage 1-phase RMS voltage 1-phase Power minimum Power factor 3-phase Active power fundamental frequency Apparent power fundamental frequency Reactive power fundamental frequency RMS active power 1-phase RMS reactive power RMS apparent power fundamental frequency Active power demand maximum Active power demand maximum Reactive power demand maximum Reactive power demand minimum Reactive power demand minimum Reactive power demand minimum Apparent power demand minimum Apparent power demand minimum RMS phase current demand maximum RMS phase current demand minimum Shy phase current external measurement Switchgear control and monitoring
control functions	Voltage 1-phase RMS voltage 1-phase Power minimum Power factor 3-phase Active power fundamental frequency Apparent power fundamental frequency Reactive power fundamental frequency Reactive power fundamental frequency RMS active power 1-phase RMS reactive power RMS apparent power fundamental frequency Active power demand maximum Active power demand maximum Reactive power demand minimum Reactive power demand minimum Apparent power demand maximum Apparent power demand maximum Reactive power demand minimum Apparent power demand maximum Apparent power demand maximum RMS phase current demand minimum Switchgear control and monitoring Programmable switchgear interlocking
control functions	Voltage 1-phase RMS voltage 1-phase Power minimum Power factor 3-phase Active power fundamental frequency Apparent power fundamental frequency Reactive power fundamental frequency RMS active power 1-phase RMS reactive power RMS apparent power fundamental frequency Active power demand maximum Active power demand maximum Reactive power demand maximum Reactive power demand minimum Reactive power demand minimum Reactive power demand minimum Apparent power demand minimum Apparent power demand minimum RMS phase current demand maximum RMS phase current demand minimum Shy phase current external measurement Switchgear control and monitoring
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controllable switchgear devices	10 controlled objects	
number of setting groups	8	
monitoring functions	Circuit breaker monitoring Switch monitoring Relay self-monitoring Trip circuit supervision 74 Event counters Watchdog	
logs and records	Disturbance recording Event recording Fault recording Operation log	
Switchgear diagnosis type	CT/VT supervision 60 Auxiliary power supply monitoring Cumulative breaking current Number of operations DC battery voltage monitoring	
Connections - terminals	Screw type terminals (digital input/output) Ring terminal (analogue input)	

Complementary

Input power interruption	100 ms 200 ms
Maximum power consumption in W	24 W typical
Operating threshold	110 V DC 220 V DC
Time synchronisation protocol	IRIG-B SNTP IEEE 1588
Software name	PowerLogic Engineering Suite
Display type	Colour touchscreen 800 x 640 pixels
Display size	7 inch
Information Displayed	Single line diagram Menu-driven user interface
Control Button Type	1 home physical key 1 reset physical key 12 customizable virtual function keys
Local signalling	4 LEDs red/orange device status 24 LEDs tri-colour programmable
Communication compatibility	DNP3 Modbus IEC 61850 Ed 2.1
Device connection	Connection to a PC USB Extension port extension cable Ethernet port RJ45 Serial port RS485 cable SFP redundant Ethernet port fibre optic/RJ45 multi/single mode optional
Product Certifications	cUL Listed UKCA KETOP CE DNV
Height	7.008 in (178 mm)
Width	8.08 in (205.2 mm)
Depth	11.1 in (282 mm)
Net weight	19.4 lb(US) (8.8 kg) maximum

Environment

climatic withstand	Exposure to cold Ae IEC 60068-2-1 Exposure to dry heat Be IEC 60068-2-2 Exposure to damp heat in service Cab IEC 60068-2-78 Temperature variation Nb IEC 60068-2-14 Exposure to damp heat not in service Cab IEC 60068-2-30 Salt mist Kb/1 IEC 60068-2-52 Influence of corrosion/gas test 2 Ke IEC 60068-2-60 Influence of corrosion/gas test 4 Ke IEC 60068-2-60	
Mechanical robustness	Vibrations class 2) IEC 60255-21-1 Shocks class 2) IEC 60255-21-2 Shocks class 1) IEC 60255-21-2 Bumps class 1) IEC 60255-21-2 Seismic tests class 2) IEC 60255-21-3	
Electromagnetic compatibility	Electromagnetic immunity class A CISPR 11 Electromagnetic immunity class A CISPR 22 Electromagnetic immunity level 3 IEC 6100-4-3 Radiated radio-frequency electromagnetic field immunity test level 5 ANSI C37.90.2 Electrostatic discharge level 4 IEC 6100-4-2 Electrostatic discharge level 3 ANSI C37.90.3 Immunity to magnetic fields level 5 IEC 61000-4-8 Immunity to magnetic fields level 5 IEC 61000-4-8 Immunity to magnetic fields level 5 IEC 61000-4-9 Immunity to magnetic fields level 3 IEC 61000-4-10 Conducted RF disturbances level 3 IEC 61000-4-16 Fast transient bursts level 4 IEC 61000-4-18 Damped oscillatory wave level 3 IEC 61000-4-18 Damped oscillatory wave level 3 IEC 61000-4-18 Damped oscillatory wave level 3 IEC 61000-4-12 Conducted disturbance emission A IEC 61000-4-16 Surges level 4 IEC 61000-4-5	
Ambient air temperature for operation	-40158 °F (-4070 °C) 96 h)	
IP degree of protection	IP54 front IEC 60529 IP30 case IEC 60529 IP20 rear IEC 60529	
IK degree of protection	IK07 conforming to IEC 62262	
maximum operating altitude	6561.68 ft (2000 m)	
Protective treatment	Conformal coating conforming to IEC 60068-2-52:Kb/1 Conformal coating conforming to IEC 60068-2-60:Ke	
Relative humidity	093 % at 104 $^\circ\text{F}$ (40 $^\circ\text{C}), without condensation, 56 days$	

Ordering and shipping details

Category	US1PL1S11407
Discount Schedule	PL1S
GTIN	3606486926581
Returnability	No
Country of origin	LV

Packing Units

0	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.81 in (30 cm)
Package 1 Width	11.81 in (30 cm)
Package 1 Length	15.75 in (40 cm)
Package 1 Weight	20.611 lb(US) (9.349 kg)

Contractual warranty

Warranty

Up to 10 years extended warranty (Standard warranty 2 years. Please check with your local SE representative for extended warranty availability and conditions)

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.

Use Better

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Νο
EU RoHS Directive	Compliant with Exemptions
SCIP Number	7185a990- e1e7-4906-8102-573086cf8d7d
REACh Regulation	REACh Declaration
China RoHS Regulation	China RoHS declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Use Again

\bigcirc 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	No

Technical Illustration

Assembly's dimensions

