Specifications



Protection and control relay, PowerLogic P7, generator standard, 5CT, 4VT, 24BI, 20BO, 110-250V, ethernet RJ45

REL73502

EAN Code: 3606486926611

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Range of product	PowerLogic P7
Product or component type	Protection and control relay
Relay application	Generator 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	4 CT 1/5 A 1 CT 1 A 4 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

RSTP Failover

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
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
	RMS voltage 1-phase
	Power
	Power factor maximum
	Active power fundamental frequency
	Apparent power fundamental frequency
	Reactive power fundamental frequency
	RMS active power fundamental frequency
	RMS reactive power fundamental frequency
	RMS apparent power Active power demand maximum
	Active power demand maximum Active power demand minimum
	Reactive power demand minimum
	Reactive power demand maximum
	Apparent power demand maximum
	Apparent power demand minimum
	RMS phase current demand maximum
	RMS phase current demand minimum
	Earth fault current external measurement
control functions	Switchgear control and monitoring
	Programmable switchgear interlocking
	Local/remote control
	Programmable logic Remote control
	Function keys
	- anosor hojo
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 ANSI code: 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

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	178 mm
Width	205.2 mm
Depth	282 mm
Net weight	8.8 kg maximum

Environment

climatic withstand	Exposure to cold Ae conforming to IEC 60068-2-1 Exposure to dry heat Be conforming to IEC 60068-2-2 Exposure to damp heat in service Cab conforming to IEC 60068-2-78 Temperature variation Nb conforming to IEC 60068-2-14 Exposure to damp heat not in service Cab conforming to IEC 60068-2-30 Salt mist Kb/1 conforming to IEC 60068-2-52 Influence of corrosion/gas test 2 Ke conforming to IEC 60068-2-60 Influence of corrosion/gas test 4 Ke conforming to IEC 60068-2-60
Mechanical robustness	Vibrations (level: class 2) conforming to IEC 60255-21-1 Shocks (level: class 2) conforming to IEC 60255-21-2 Shocks (level: class 1) conforming to IEC 60255-21-2 Bumps (level: class 1) conforming to IEC 60255-21-2 Seismic tests (level: class 2) conforming to IEC 60255-21-3
Electromagnetic compatibility	Electromagnetic immunity class A conforming to CISPR 11 Electromagnetic immunity class A conforming to CISPR 22 Electromagnetic immunity level 3 conforming to IEC 6100-4-3 Radiated radio-frequency electromagnetic field immunity test level 4 conforming to ANSI C37.90.2 Electrostatic discharge level 4 conforming to IEC 6100-4-2 Electrostatic discharge level 5 conforming to ANSI C37.90.3 Immunity to magnetic fields level 4 conforming to IEC 61000-4-8 Immunity to magnetic fields level 5 conforming to IEC 61000-4-8 Immunity to magnetic fields level 5 conforming to IEC 61000-4-9 Immunity to magnetic fields level 5 conforming to IEC 61000-4-10 Conducted RF disturbances level 3 conforming to IEC 61000-4-6 Fast transient bursts level 4 conforming to IEC 61000-4-4 Damped oscillatory wave level 3 conforming to IEC 61000-4-18 Damped oscillatory wave level 3 conforming to IEC 61000-4-12 Conducted disturbance emission A conforming to IEC 61000-4-16 Surges level 4 conforming to IEC 61000-4-16
Ambient air temperature for operation	-4070 °C (96 h)
IP degree of protection	IP54 front conforming to IEC 60529 IP30 case conforming to IEC 60529 IP20 rear conforming to IEC 60529
IK degree of protection	IK07 conforming to IEC 62262
maximum operating altitude	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	0…93 % at 40 °C, without condensation, 56 days

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	30 cm
Package 1 Width	30 cm
Package 1 Length	40 cm
Package 1 Weight	8.217 kg

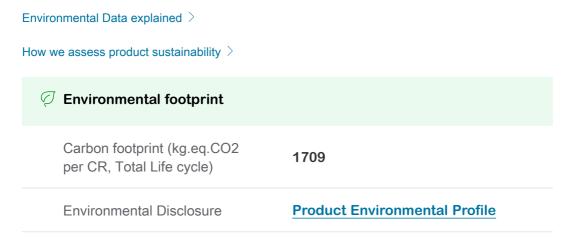
Contractual warranty

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

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

Use Again

\circlearrowright Repack and remanufacture	
Circularity Profile	End of Life Information

Life Is On Schneider

 WEEE
 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

 Take-back
 No