

Product datasheet

Specifications



Stand-alone merging unit, PowerLogic P7, basic, 5CT, 4VT, 8BI, 8BO, 48-125V, ethernet RJ45

REL79201

Main

Range of product	PowerLogic P7
Product or component type	Stand alone merging unit
Relay application	Merging unit application and bay control
product reference	P7
Mounting case size	40TE
Device mounting	Panel mounting
Mounting support	19" rack
Mounting mode	Panel mounting Rack-mounted with kit Wall mounted
power supply	48...125 V DC
measuring inputs	4 CT 1/5 A 1 CT 1 A 4 VT
Type of measurement	Earth fault current external measurement
number of Digital Inputs (DI)	8
number of Digital Outputs (DO)	8 1 watchdog
communication ports	1 CAN port 1 Ethernet TCP/IP 2 SFP ports 1 USB port 1 COM serial link 1 PoE port
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
Cybersecurity	IEC 62443 SL2 LDAP RADIUS based user authentication Port hardening Role-based access control Secure boot Security log Syslog protocol support Firmware signature Client IP address filter Pre-login banner Security policy management

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

protection functions	Phase overcurrent 50/51 CT supervision 60 VT supervision 60FL Programmable logic
control functions	Switchgear control and monitoring Programmable switchgear interlocking Programmable logic Remote control
controllable switchgear devices	6 controlled objects including 1 CB
monitoring functions	Circuit breaker monitoring Switch monitoring Relay self-monitoring Event counters Watchdog
logs and records	Operation log
Switchgear diagnosis type	CT/VT supervision ANSI code: 60 DC battery voltage monitoring Cumulative breaking current Number of operations Trip circuit supervision ANSI code: 74
Connections - terminals	Screw type terminals (digital input/output) Ring terminal (current transformer) Pin terminal (voltage transformer)

Complementary

Data recording	Maintenance logs Event logs Sequence of event recording
Input power interruption	50 ms 100 ms
Maximum power consumption in W	24 W typical
Operating threshold	48 V DC 110 V DC
Time synchronisation protocol	IRIG-B SNTP PTP IEEE 1588
Software name	PowerLogic Engineering Suite
Display type	Without display
Local signalling	4 LEDs green/yellow device status
Device connection	Connection to a PC RJ45 Extension port extension cable Ethernet port RJ45 Serial port RS485 cable SFP redundant Ethernet port fibre optic/RJ45 multi/single mode optional PoE port RJ45
Product certifications	CE UKCA UL/cUL listed ATEX KEMA KETOP Achilles DNV TÜV
Height	180 mm
Width	205 mm
Depth	280 mm

Net weight	8.8 kg maximum
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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 32 Electromagnetic immunity level 3 conforming to IEC 6100-4-3 Electromagnetic immunity class A conforming to IEC 60255-26 Radiated radio-frequency electromagnetic field immunity test level 3 conforming to ANSI C37.90.2 Radiated radio-frequency electromagnetic field immunity test level 3 conforming to IEC 60255-26 Electrostatic discharge level 4 conforming to IEC 6100-4-2 Electrostatic discharge level 5 conforming to ANSI C37.90.3 Electrostatic discharge level 4 conforming to IEC 60255-26 Immunity to magnetic fields level 5 conforming to IEC 61000-4-8 Immunity to magnetic fields level 5 conforming to IEC 60255-26 Immunity to magnetic fields level 5 conforming to IEC 61000-4-9 Fast transient bursts level 4 conforming to IEC 60255-26 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 conforming to ANSI C37.90.1 Damped oscillatory wave level 3 conforming to IEC 60255-26 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 61000-4-5 Surges level 4 conforming to IEC 60255-26
Ambient air temperature for operation	-40...70 °C (96 h)
Ambient air temperature for storage	-40...85 °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

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	6.988 kg

Contractual warranty

Warranty (in months)	24
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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.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Total lifecycle Carbon footprint	1 545 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	581 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	951 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	10 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	7185a990-e1e7-4906-8102-573086cf8d7d
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Recyclability potential, in %	32
End of life manual availability	End of Life Information
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Technical Illustration

Assembly's dimensions

