

Product datasheet

Specifications



arc protection relay, PowerLogic A3
F12P 12 point 2 control sensors arc
device

REL52921

Main

Range	PowerLogic
Product name	PowerLogic Arc
Device short name	A3-F12P
Product or component type	Arc fault detection device
Relay application	Arc flash
Protection type	Arc suppression
Protection type	Arc suppression 50ARC
number of inputs	12 arc sensor

Complementary

binary input voltage	24...240 V AC/DC (voltage limits: 250 V)
number of outputs	2 digital 2 control relay
Output current limits	20 mA at 24 V DC
Type of measurement	Arc
control functions	Switchgear internal arc detection
power supply	24...240 V AC/DC
Supply	Power over Ethernet (PoE)
HMI	LED 15
mounting	Flush DIN rail
Connections - terminals	Removable screw terminal block
Height	Total: 135 mm
Width	Total: 70 mm
Depth	Total : 126 mm
Net weight	0.9 kg

Environment

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

Electromagnetic compatibility	Emission tests conforming to IEC/EN 60255-26 ed. 3 Emission tests class A conforming to EN 55022 Emission tests conforming to CISPR 22 Emission tests class A conforming to EN 55011 Emission tests conforming to IEC 60255-25 Emission tests conforming to CISPR 11 EMC immunity A conforming to IEC/EN 60255-26 ed. 3 Damped oscillatory wave conforming to EN/IEC 61000-4-18 Electrostatic discharge level 4 conforming to EN/IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 conforming to EN/IEC 61000-4-3 Electrical fast transient level 4 conforming to EN/IEC 61000-4-4 Surge immunity test level 3 conforming to EN/IEC 61000-4-5 Immunity to conducted interference caused by radio-electrical fields level 3 conforming to EN/IEC 61000-4-6 Immunity to magnetic fields conforming to EN/IEC 61000-4-8 Immunity to magnetic fields level 5 conforming to EN/IEC 61000-4-9 Immunity to voltage dips power lines (DC) conforming to EN/IEC 61000-4-29 Immunity to voltage dips conforming to EN/IEC 61000-4-11 Immunity to ripple conforming to EN/IEC 61000-4-17
Standards	EN/IEC 60255-1 EN 60255-27
IP degree of protection	IP20 conforming to IEC 60529
Relative humidity	0...95 % without condensation
Mechanical robustness	Vibrations (level: class 2) conforming to IEC 60255-21-1 Shocks (level: class 2) conforming to IEC 60255-21-2 Earthquakes (level: criteria A) : level 2 conforming to IEC 60255-21-3 Vibrations (level: Fc) conforming to IEC 60068-2-6 Shocks (level: Ea) conforming to IEC 60068-2-27
Protective treatment	Conformal coating
Operating altitude	<= 2000 m
Environmental characteristic	Exposure to dry heat Bd conforming to EN/IEC 60068-2-2 Exposure to cold Ad conforming to EN/IEC 60068-2-1 Exposure to damp heat in service Db conforming to EN/IEC 60068-2-30 Exposure to damp heat in service Cab conforming to EN/IEC 60068-2-78 Temperature variation Nb conforming to IEC 60068-2-14
Ambient air temperature for operation	-40...65 °C
Ambient air temperature for storage	-40...80 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.000 cm
Package 1 Width	17.300 cm
Package 1 Length	17.300 cm
Package 1 Weight	1.116 kg
Unit Type of Package 2	S03
Number of Units in Package 2	4
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	4.878 kg

Contractual warranty

Warranty (in months)	18
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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	501 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	79 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.3 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.3 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	420 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	2 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Packaging

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
SCIP Number	2e8fd19b-6943-4677-8805-357ea38602a7
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

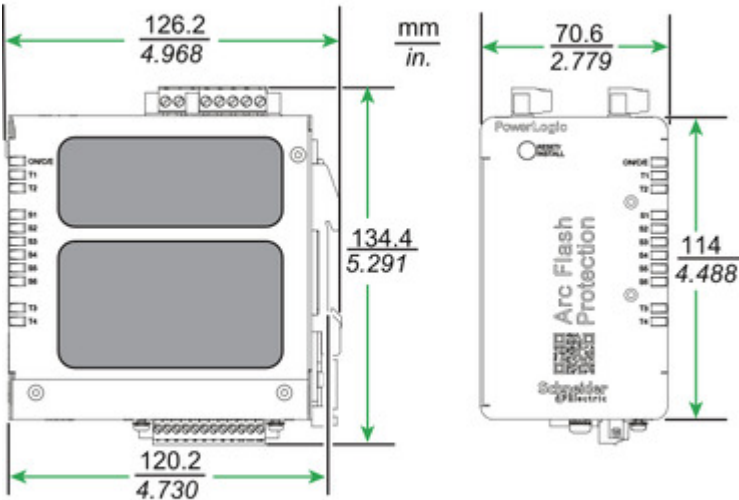


Repack and remanufacture

Recyclability potential, in %	60
End of life manual availability	End of Life Information
Take-back	No

Technical Illustration

Dimensions



Technical Illustration

Wiring diagram

