Product datasheet

Specifications



Surge arrester with pluggable cartridge, Acti9 iPRD F40r, 1P+N, 20kA, type 2+3, with fuse, with remote monitoring

A9L8F451

EAN Code: 3606487695554

Main

range of product	Acti9
Product name	Acti9 iPRD
Product or component type	Surge arrester with pluggable cartridge
Device short name	iPRD F40r
Device application	Distribution
Standards	IEC 61643-11:2011 BS EN 61643-11:2012+A11:2018
Quality labels	UKCA
Poles description	1P + N
Remote signalling	With
Surge arrester type	Electrical distribution network
Earthing system	TT TN-S TN-C-S
Condition of use	Fuse (integrated)

Complementary

Surge arrester class type	Type 2 + 3
Surge arrester technology	MOV + GDT
[Ue] rated operational voltage	230/240 V AC at 50/60 Hz
Nominal discharge current	Differential mode: 20 kA (L/N) Common mode: 40 kA (N/PE)
Maximum discharge current	Differential mode: 40 kA L/N Common mode: 65 kA N/PE
[Uoc] open circuit voltage	6000 V differential mode L/N 6000 V common mode N/PE
[Uc] maximum continuous operating voltage	Differential mode: 340 V L/N Common mode: 305 V N/PE
Maximum [Up] voltage protection level	Differential mode <1.5 kV L/N Common mode <1.5 kV N/PE
[Ut] temporary overvoltage	337 V L/N 5 s withstand 1200 V N/PE 200 ms withstand 442 V L/N 120 min safe failure mode
[Ifi] follow current	100 A common mode N/PE
Short-circuit withstand	25 kA

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

Local signalling	Operating state: flag (green) Fault indication: flag (red)
Signalling circuit voltage	1 A/250 V AC 1 A/125 V AC 0.5 A/48 V DC 0.5 A/24 V DC 0.5 A/12 V DC 0.01 A/5 V DC
Mounting mode	Plug-on (chassis)
9 mm pitches	2
Height	129 mm
Width	18 mm
Depth	85 mm
Net weight	142.4 g
Colour	White (RAL 9003)
Material	Thermoplastic
Response time	< 25 ns L/N < 100 ns N/PE
Cable cross section	0.14…1.5 mm² solid cable for remote control 6…25 mm² solid stranded cable for power terminals 6…16 mm² flexible cable for power terminals 6…16 mm² solid stranded cable for earthing terminal 6…10 mm² flexible cable for earthing terminal
Wire stripping length	Remote control: 10 mm Power terminals: 14 mm Earthing terminal: 14 mm
Tightening torque	Remote control: 0.2…0.25 N.m Power terminals: 3.5 N.m Earthing terminal: 2 N.m
Targeted country	United Kingdom

Environment

IP degree of protection	IP20 with device wired
IK degree of protection	IK05
Relative humidity	5…95 %
Operating altitude	0...2000 m
Ambient air temperature for operation	-40…85 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	19.800 cm
Package 1 Width	16.100 cm
Package 1 Length	3.400 cm
Package 1 Weight	228.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	20
Package 2 Height	30.000 cm

Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	5.234 kg
Unit Type of Package 3	P06
Number of Units in Package 3	160
Package 3 Height	75.000 cm
Package 3 Width	80.000 cm
Package 3 Length	60.000 cm
Package 3 Weight	51.872 kg

Contractual warranty

Warranty (in months)	18

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	**2 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**
Carbon footprint of the manufacturing phase [A1 to A3]	**1 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.1 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**0.3 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.3 kg CO2 eq.**

Use Better

Materials and Substances

SCIP Number	**A9614fa2-07f8-47d1-a2fe-e27b32003d8d**
EU RoHS Directive	**Compliant**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**

Use Longer

Lifetime extension

Repair	**No**

Use Again

Repack and remanufacture

Recyclability potential, in %	**51**
End of life manual availability	**No need of specific recycling operations**
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

