

Product data sheet

Characteristics

R9L2C640

Surge arrester with pluggable cartridge, Resi9 iPRD C40r, 3P+N, 40kA, type 2+3, compact size, with remote monitoring



Main

Range of product	Resi9
Product name	Resi9 iPRD
Product or component type	Surge arrester with pluggable cartridge
Device short name	iPRD C40r
Poles description	3P + N
Remote signalling	With
Surge arrester type	Electrical distribution network
[Uoc] open circuit voltage	6000 V differential mode L/N 6000 V common mode N/PE
Earthing system	TT TN-S
Device application	Residential Building

Complementary

Surge arrester class type	Type 2 + 3
Surge arrester technology	MOV + GDT
[Ue] rated operational voltage	230/400 V AC 50/60 Hz
[In] nominal discharge current	Differential mode: 20 kA (L/N) Common mode: 20 kA (N/PE)
[Imax] maximum discharge current	Differential mode: 40 kA L/N Common mode: 40 kA N/PE
[Uc] maximum continuous operating voltage	Differential mode: 275 V AC L/N Common mode: 255 V AC N/PE
Maximum [Up] voltage protection level	Differential mode <1.5 kV type 2 + 3 L/N Common mode <1.5 kV type 2 + 3 N/PE Differential mode <1 kV type 3 L/N Common mode <1 kV type 3 N/PE
[Ures] residual voltage	1000 V L/N 300 V N/PE
[Ut] temporary overvoltage	335 V L/N 5 s withstand 1200 V N/PE 200 ms withstand 440 V L/N 120 min safe failure mode
[Ifi] follow current	100 A common mode N/PE
[Isccr] short-circuit current rating	25 kA
Maximum switching capacity	0.1 A 60 V DC 0.5 A 250 V AC
Disconnecter device type	Fusible disconnect gG 100 A Miniature circuit breaker
Local signalling	Operating state: flag (green) Fault indication: flag (red)
Mounting mode	Clip-on
Mounting support	DIN rail
9 mm pitches	4
Height	99 mm
Width	36 mm
Depth	70 mm
Net weight	262 g

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Quantity per set	Set of 1
Colour	White (RAL 9003)
Material	Thermoplastic
Cable cross section	1...1.5 Mm ² solid cable for remote control 2.5...6 Mm ² flexible cable for power terminals 2.5...10 Mm ² solid cable for power terminals 6...35 Mm ² solid stranded cable for earthing terminal 6...25 mm ² flexible cable for earthing terminal
Response time	< 25 ns L/N < 100 ns N/PE
Wire stripping length	Remote control: 15 mm for L/N connection 15 Mm for PE connection Remote control: 5 mm for L/N connection
Tightening torque	1.2 N.M L/N 2 N.M PE Remote control: 0.4 N.m

Environment

Standards	IEC 61643-11:2011 EN 61643-11:2012 EN 61643-11:2018/A11
Product certifications	CE
IP degree of protection	IP20 with cartridges fitted and 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	11.8 cm
Package 1 Width	8.3 cm
Package 1 Length	4.4 cm
Package 1 Weight	296 g
Unit Type of Package 2	S02
Number of Units in Package 2	24
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	322.104 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Compliant  EU RoHS Declaration
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	No need of specific recycling operations