

# Product datasheet

Specifications



## Modular surge arrester, Acti9 iPRD1 12.5, 3 P + N, 350 V, with remote transfert

A9L16482

### Main

|                             |                                 |
|-----------------------------|---------------------------------|
| Range of product            | Acti9                           |
| Product name                | Acti9 iPRD1                     |
| Product or component type   | Surge arrester                  |
| Device short name           | IPRD1 12.5                      |
| Device application          | Distribution                    |
| Poles description           | 3P + N                          |
| Remote signalling           | With                            |
| Signal contacts composition | 1 SD (1 C/O)                    |
| Surge arrester type         | Electrical distribution network |
| Earthing system             | TT<br>TN-S                      |

### Complementary

|                                           |                                                                                                            |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Surge arrester class type                 | Type 1 + 2                                                                                                 |
| Surge arrester technology                 | MOV + GDT                                                                                                  |
| [Ue] rated operational voltage            | 230/400 V AC (+/- 10 %) at 50...60 Hz                                                                      |
| [In] nominal discharge current            | 20 kA                                                                                                      |
| [Imax] maximum discharge current          | 50 kA                                                                                                      |
| [Iimp] impulse current                    | Common mode: 50 kA N/PE<br>Differential mode: 12.5 kA L/N                                                  |
| [Uc] maximum continuous operating voltage | Differential mode: 350 V L/N<br>Common mode: 255 V N/PE                                                    |
| Maximum [Up] voltage protection level     | <1.5 kV type 1 + 2                                                                                         |
| Residual current                          | 0.003 mA N/PE                                                                                              |
| [Ut] temporary overvoltage                | 337 V L/N 5 s withstand<br>1200 V N/PE 200 ms safe failure mode                                            |
| Disconnecter device type                  | Associated fuse gG 160 A 120 kA standard<br>Associated circuit breaker Compact NSX160E 80 A 25 kA standard |
| [Isccr] short-circuit current rating      | 50 kA                                                                                                      |
| Local signalling                          | White mechanical indicator for operating<br>Red mechanical indicator for end of life                       |

|                         |                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mounting mode           | Clip-on                                                                                                                                                                                                    |
| Mounting support        | DIN rail                                                                                                                                                                                                   |
| 9 mm pitches            | 8                                                                                                                                                                                                          |
| Height                  | 89 mm                                                                                                                                                                                                      |
| Width                   | 72 mm                                                                                                                                                                                                      |
| Depth                   | 69 mm                                                                                                                                                                                                      |
| Net weight              | 619 g                                                                                                                                                                                                      |
| Colour                  | White (RAL 9003)                                                                                                                                                                                           |
| Material                | PA6                                                                                                                                                                                                        |
| Response time           | < 25 ns                                                                                                                                                                                                    |
| Connections - terminals | Tunnel type terminal (phase) 10...25 mm² flexible<br>Tunnel type terminal (phase) 10...35 mm² rigid<br>Tunnel type terminal (earth) 16...25 mm² flexible<br>Tunnel type terminal (earth) 16...35 mm² rigid |
| Wire stripping length   | 14 mm                                                                                                                                                                                                      |
| Tightening torque       | 3.5 N.m                                                                                                                                                                                                    |

## Environment

|                                       |                                                                                       |
|---------------------------------------|---------------------------------------------------------------------------------------|
| Standards                             | EN 61643-11:2012<br>IEC 61643-11:2011                                                 |
| Quality labels                        | CE<br>EAC<br>VDE                                                                      |
| IP degree of protection               | IP40 on front face: conforming to IEC 60529<br>IP20 built-in: conforming to IEC 60529 |
| IK degree of protection               | IK05 conforming to IEC 62262                                                          |
| Pollution degree                      | 3                                                                                     |
| Relative humidity                     | 5...95 %                                                                              |
| Operating altitude                    | 2000 m                                                                                |
| Ambient air temperature for operation | -25...60 °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 Weight             | 649.0 g   |
| Package 1 Height             | 8 cm      |
| Package 1 width              | 8 cm      |
| Package 1 Length             | 9.3 cm    |
| Unit Type of Package 2       | P06       |
| Number of Units in Package 2 | 144       |
| Package 2 Weight             | 136.48 kg |
| Package 2 Height             | 75 cm     |
| Package 2 width              | 80 cm     |
| Package 2 Length             | 60 cm     |
| Unit Type of Package 3       | BB1       |

|                              |          |
|------------------------------|----------|
| Number of Units in Package 3 | 3        |
| Package 3 Weight             | 2.596 kg |
| Package 3 Height             | 8.5 cm   |
| Package 3 width              | 9.7 cm   |
| Package 3 Length             | 28 cm    |

Offer Sustainability

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                       |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                           |
| REACH free of SVHC         | Yes                                                                                                                         |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>                                                                            |
| Toxic heavy metal free     | Yes                                                                                                                         |
| Mercury free               | Yes                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Pro-active China RoHS declaration (out of China RoHS legal scope)                 |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                               |
| Circularity Profile        | <a href="#">End of Life Information</a>                                                                                     |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|