

# Product datasheet

Specifications



## iPRD40 modular surge arrester - 1P + N - 350V

Local distributor code: 402640877    A9L40500

### Main

|                           |                                         |
|---------------------------|-----------------------------------------|
| Range of product          | Acti 9                                  |
| Product name              | Acti9 iPRD                              |
| Product or component type | Surge arrester with pluggable cartridge |
| Device short name         | IPRD40                                  |
| Device application        | Distribution                            |
| Poles description         | 1P + N                                  |
| Remote signalling         | Without                                 |
| Surge arrester type       | Electrical distribution network         |
| Earthing system           | TN-S<br>TT                              |

### Complementary

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Surge arrester class type                 | Type 2                                                                                                                                                                                                                                                                                                                                                                                         |
| Surge arrester technology                 | MOV + GDT                                                                                                                                                                                                                                                                                                                                                                                      |
| [Ue] rated operational voltage            | 230/400 V AC (+/- 10 %) at 50/60 Hz                                                                                                                                                                                                                                                                                                                                                            |
| [In] nominal discharge current            | Common mode: 15 kA (L/PE)<br>Common mode: 15 kA (N/PE)<br>Differential mode: 15 kA (L/N)                                                                                                                                                                                                                                                                                                       |
| [Imax] maximum discharge current          | Common mode: 40 kA L/PE<br>Common mode: 40 kA N/PE<br>Differential mode: 40 kA L/N                                                                                                                                                                                                                                                                                                             |
| [Uc] maximum continuous operating voltage | Common mode: 260 V N/PE<br>Common mode: 350 V L/PE<br>Differential mode: 350 V L/N                                                                                                                                                                                                                                                                                                             |
| Maximum [Up] voltage protection level     | Common mode <1.4 kV type 2 N/PE<br>Differential mode <1.4 kV type 2 L/N                                                                                                                                                                                                                                                                                                                        |
| [Ut] temporary overvoltage                | 337 V L/N 5 s withstand<br>1200 V N/PE 200 ms safe failure mode<br>442 V L/PE 5 s withstand<br>1453 V L/PE 200 ms safe failure mode                                                                                                                                                                                                                                                            |
| Disconnecter device type                  | Associated circuit breaker iC60H 50 A curve C - Icu 15 kA<br>Associated circuit breaker IC60N 40 A curve C - Icu 10 kA<br>Associated circuit breaker NG125H 63 A curve C - Icu 36 kA<br>Associated circuit breaker NG125L 63 A curve C - Icu 50 kA<br>Associated circuit breaker NG125N 40 A curve C - Icu 25 kA<br>Associated fuse gG 63 A - Icu 15 kA<br>Associated fuse gG 80 A - Icu 50 kA |
| [Isc cr] short-circuit current rating     | 50 kA                                                                                                                                                                                                                                                                                                                                                                                          |

|                               |                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------|
| Mounting mode                 | Clip-on                                                                                    |
| Mounting support              | DIN rail                                                                                   |
| 9 mm pitches                  | 4                                                                                          |
| Height                        | 85 mm                                                                                      |
| Width                         | 36 mm                                                                                      |
| Depth                         | 69 mm                                                                                      |
| Net weight                    | 0.211 kg                                                                                   |
| Colour                        | White (RAL 9003)                                                                           |
| Response time                 | <= 25 ns                                                                                   |
| [Ipe] Ground residual current | 0.6 mA<br>0.003 mA                                                                         |
| Connections - terminals       | Tunnel type terminal (downside) 2.5...35 mm²<br>Tunnel type terminal (upside) 2.5...35 mm² |
| Tightening torque             | 2.5 N.m                                                                                    |

## Environment

|                                       |                                                                                       |
|---------------------------------------|---------------------------------------------------------------------------------------|
| Standards                             | EN 61643-11:2012<br>IEC 61643-11:2011                                                 |
| Product certifications                | CE                                                                                    |
| Quality labels                        | KEMA-KEUR<br>NF                                                                       |
| IP degree of protection               | IP40 on front face: conforming to IEC 60529<br>IP20 built-in: conforming to IEC 60529 |
| IK degree of protection               | IK03 conforming to IEC 62262                                                          |
| Relative humidity                     | 5...95 %                                                                              |
| Operating altitude                    | 2000 m                                                                                |
| Ambient air temperature for operation | -25...60 °C                                                                           |
| Ambient air temperature for storage   | -40...85 °C                                                                           |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Weight             | 238 g     |
| Package 1 Height             | 5 cm      |
| Package 1 width              | 8 cm      |
| Package 1 Length             | 9 cm      |
| Unit Type of Package 2       | BB1       |
| Number of Units in Package 2 | 6         |
| Package 2 Weight             | 1.525 kg  |
| Package 2 Height             | 9 cm      |
| Package 2 width              | 10 cm     |
| Package 2 Length             | 28 cm     |
| Unit Type of Package 3       | S03       |
| Number of Units in Package 3 | 54        |
| Package 3 Weight             | 14.212 kg |

|                  |       |
|------------------|-------|
| Package 3 Height | 30 cm |
| Package 3 width  | 30 cm |
| Package 3 Length | 40 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>                                                                     |

Contractual warranty

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