# Product datasheet

Specifications



## Surge arrester with pluggable cartridge, Acti9 load centre KQ II A iPRD iKQ, 1P+N, 20kA, type 2+3, with fuse, without remote monitoring

SEL8F450

**EAN Code: 3606487695561**

## Main

| | |
|---|---|
| **range of product** | Acti9 |
| **Product name** | Load centre KQ II A |
| **Product or component type** | Surge arrester with pluggable cartridge |
| **Device short name** | iPRD iKQ |
| **Device application** | Distribution |
| **Standards** | IEC 61643-11:2011<br>BS EN 61643-11:2012+A11:2018 |
| **Quality labels** | UKCA |
| **Poles description** | 1P + N |
| **Remote signalling** | Without |
| **Surge arrester type** | Electrical distribution network |
| **Earthing system** | TT<br>TN-S<br>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)<br>Common mode: 40 kA (N/PE) |
| **Maximum discharge current** | Differential mode: 40 kA L/N<br>Common mode: 65 kA N/PE |
| **[Uoc] open circuit voltage** | 6000 V differential mode L/N<br>6000 V common mode N/PE |
| **[Uc] maximum continuous operating voltage** | Differential mode: 340 V L/N<br>Common mode: 305 V N/PE |
| **Maximum [Up] voltage protection level** | Differential mode <1.5 kV L/N<br>Common mode <1.5 kV N/PE |
| **[Ut] temporary overvoltage** | 337 V L/N 5 s withstand<br>1200 V N/PE 200 ms withstand<br>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)<br>Fault indication: flag (red) |
| **Signalling circuit voltage** | 1 A/250 V AC<br>1 A/125 V AC<br>0.5 A/48 V DC<br>0.5 A/24 V DC<br>0.5 A/12 V DC<br>0.01 A/5 V DC |
| **Mounting mode** | Plug-on (chassis) |
| **9 mm pitches** | 2 |
| **Height** | 136 mm |
| **Width** | 18 mm |
| **Depth** | 83 mm |
| **Net weight** | 148.3 g |
| **Colour** | White (RAL 9003) |
| **Material** | Thermoplastic |
| **Response time** | < 25 ns L/N<br>< 100 ns N/PE |
| **Cable cross section** | 0.14…1.5 mm² solid cable for remote control<br>6…16 mm² solid stranded cable for neutral/earthing terminal<br>6…10 mm² flexible cable for neutral/earthing terminal |
| **Wire stripping length** | Remote control: 10 mm<br>Neutral/earthing terminal: 14 mm |
| **Tightening torque** | Remote control: 0.2…0.25 N.m<br>Neutral/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** | 3.300 cm |
| **Package 1 Width** | 16.000 cm |
| **Package 1 Length** | 19.700 cm |
| **Package 1 Weight** | 236.500 g |

## 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**

