

# Product data sheet

Specifications

SQUARE D



! Discontinued

Circuit breaker, PowerPacT J, 175A, 3 pole, 600VAC, 14kA, busbar, thermal magnetic, 80%, undervoltage

JDF36175UK

! Discontinued on: Nov 6, 2025

! End-of-service on: Dec 31, 2025

## Main

|                           |                 |
|---------------------------|-----------------|
| Range                     | PowerPact       |
| Product name              | PowerPact J     |
| Product or component type | Circuit breaker |
| Device application        | Distribution    |

## Complementary

|                                        |                                                                                                                                                                                               |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [In] rated current                     | 175 A                                                                                                                                                                                         |
| Number of Poles                        | 3P                                                                                                                                                                                            |
| Control type                           | Toggle                                                                                                                                                                                        |
| Breaking capacity code                 | D                                                                                                                                                                                             |
| Breaking capacity                      | 25 kA 240 V AC 50/60 Hz UL 489<br>18 kA 480 V AC 50/60 Hz<br>14 kA 600 V AC 50/60 Hz<br>20 kA 250 V DC                                                                                        |
| [Ue] rated operational voltage         | 600 V AC 50/60 Hz IEC 60947-3                                                                                                                                                                 |
| Network frequency                      | 50/60 Hz                                                                                                                                                                                      |
| [Ics] rated service breaking capacity  | 25 kA 220/240 V AC 50/60 Hz IEC 60947-2<br>18 kA 380/440/415 V AC 50/60 Hz IEC 60947-2<br>14 kA 500/525 V AC 50/60 Hz IEC 60947-2<br>20 kA 250 V DC IEC 60947-2<br>20 kA 500 V DC IEC 60947-2 |
| [Uimp] rated impulse withstand voltage | 8 kV IEC 60947-2                                                                                                                                                                              |
| Trip unit technology                   | Thermal-magnetic                                                                                                                                                                              |
| Magnetic tripping current              | 1750 A                                                                                                                                                                                        |
| Magnetic hold current                  | 875 A                                                                                                                                                                                         |
| Continuous current rating              | 80 %                                                                                                                                                                                          |
| [Ui] rated insulation voltage          | 750 V IEC 60947-2                                                                                                                                                                             |
| Protection type                        | Overload protection<br>Short-circuit protection                                                                                                                                               |
| Accessory / separate part type         | Voltage release 24 V AC compartment                                                                                                                                                           |
| Suitability for isolation              | Yes IEC 60947-2                                                                                                                                                                               |
| Utilisation category                   | Category A                                                                                                                                                                                    |
| AWG gauge                              | AWG 4...AWG 4/0 aluminum/copper terminal                                                                                                                                                      |

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                   | Switched off (OFF) 1 trip indicator green)                                                                                                    |
| Mounting mode                      | Unit mount busbar)                                                                                                                            |
| Mounting support                   | Busbar                                                                                                                                        |
| Electrical connection              | Busbar connection, line<br>Busbar connection, load                                                                                            |
| Terminal identifier                | AL175JD                                                                                                                                       |
| Long time pick-up adjustment range | 0.25...1 x In                                                                                                                                 |
| Mounting height                    | 4.5 in (114.3 mm)                                                                                                                             |
| Tightening torque                  | 221.3 lbf.in (25 N.m) 0.04...0.1 in <sup>2</sup> (25...95 mm <sup>2</sup> ) AWG 4...AWG 4/0)                                                  |
| Number of slots                    | 2 auxiliary switch OF plug-in)<br>1 alarm switch SD plug-in)<br>1 overcurrent trip switch SDE plug-in)<br>1 voltage release MN or MX plug-in) |
| Power wire stripping length        | 1.0 in (25 mm)                                                                                                                                |
| Height                             | 7.5 in (191 mm)                                                                                                                               |
| Width                              | 4.09 in (104 mm)                                                                                                                              |
| Depth                              | 3.4 in (86 mm)                                                                                                                                |
| Net weight                         | 5.3 lb(US) (2.4 kg)                                                                                                                           |
| Phase connection                   | AC                                                                                                                                            |
| Communication interface            | Modbus<br>Ethernet                                                                                                                            |
| Circuit breaker application        | HACR rated                                                                                                                                    |

## Environment

|                                       |                                                       |
|---------------------------------------|-------------------------------------------------------|
| Quality labels                        | CE                                                    |
| Standards                             | UL<br>CSA<br>NEMA<br>NOM-003-SCFI-2000<br>IEC 60947-2 |
| Product certifications                | UL<br>CSA<br>NOM                                      |
| IP degree of protection               | Front cover IP40                                      |
| Pollution degree                      | 3 IEC 60947-1                                         |
| Ambient air temperature for operation | -13...158 °F (-25...70 °C)                            |
| Ambient air temperature for storage   | -58...185 °F (-50...85 °C)                            |
| Operating altitude                    | < 2000 m without derating<br>5000 m with derating     |

## Packing Units

|                              |                           |
|------------------------------|---------------------------|
| Unit Type of Package 1       | PCE                       |
| Number of Units in Package 1 | 1                         |
| Package 1 Height             | 5.125 in (13.018 cm)      |
| Package 1 Width              | 7.250 in (18.415 cm)      |
| Package 1 Length             | 8.438 in (21.433 cm)      |
| Package 1 Weight             | 5.00009 lb(US) (2.268 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                       | 865 kg CO2 eq.                                |
| Carbon footprint of the manufacturing phase [A1 to A3] | 11 kg CO2 eq.                                 |
| Carbon footprint of the distribution phase [A4]        | 0.3 kg CO2 eq.                                |
| Carbon footprint of the installation phase [A5]        | 0.3 kg CO2 eq.                                |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 853 kg CO2 eq.                                |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 0.3 kg CO2 eq.                                |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|                                        |                                        |
|----------------------------------------|----------------------------------------|
| Packaging made with recycled cardboard | Yes                                    |
| Packaging without single use plastic   | No                                     |
| EU RoHS Directive                      | <a href="#">Compliant By Exemption</a> |
| PVC free                               | Yes                                    |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Technical Illustration

## Dimensions

