

# Product data sheet

Specifications

**SQUARE D**



Circuit breaker, PowerPact J,  
175A, 3 pole, 600VAC, 14kA, lugs,  
thermal magnetic, 80%

JDL36175

**Product availability: Stock - Normally stocked in distribution facility**

## Main

|                           |                 |
|---------------------------|-----------------|
| Range                     | PowerPact       |
| Product name              | PowerPact J     |
| Product or Component Type | Circuit breaker |
| Device Application        | Distribution    |

## Complementary

|  |   |
|--|---|
| Line 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   |
| Suitability for isolation              | Yes IEC 60947-2   |
| Utilisation category                   | Category A  |
| AWG gauge                              | AWG 4...AWG 4/0 aluminium/copper terminal   |
| Local signalling                       | Switched off (OFF) 1 trip indicator green)  |
| Mounting mode                          | Unit mount lug)   |
| Mounting Support                       | Lug   |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

|   |   |
|---|---|
| <b>Electrical connection</b>              | Lugs, line<br>Lugs, load  |
| <b>Terminal identifier</b>                | AL175JD   |
| <b>Long time pick-up adjustment range</b> | 0.25...1 x In   |
| <b>Tightening torque</b>                  | 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)   |
| <b>Number of slots</b>                    | 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) |
| <b>Power wire stripping length</b>        | 1.0 in (25 mm)  |
| <b>Height</b>                             | 7.5 in (191 mm)   |
| <b>Width</b>                              | 4.09 in (104 mm)  |
| <b>Depth</b>                              | 3.4 in (86 mm)  |
| <b>Net Weight</b>                         | 5.3 lb(US) (2.4 kg)   |
| <b>Communication interface</b>            | Modbus<br>Ethernet  |
| <b>Circuit breaker application</b>        | HACR rated  |

## Environment

|  |  |
|--|--|
| <b>Quality labels</b>                        | CE   |
| <b>Standards</b>                             | UL<br>CSA<br>NEMA<br>NOM-003-SCFI-2000<br>IEC 60947-2          |
| <b>Product certifications</b>                | UL<br>CSA<br>NOM   |
| <b>IP degree of protection</b>               | Front cover IP40   |
| <b>Pollution degree</b>                      | 3 IEC 60947-1  |
| <b>Ambient Air Temperature for Operation</b> | -13...158 °F (-25...70 °C)                                     |
| <b>Ambient Air Temperature for Storage</b>   | -58...185 °F (-50...85 °C)                                     |
| <b>Operating altitude</b>                    | < 6561.68 ft (2000 m) without derating<br>5000 m with derating |

## Ordering and shipping details

|                          |              |
|--------------------------|--------------|
| <b>Category</b>          | US10DE201110 |
| <b>Discount Schedule</b> | 0DE2         |
| <b>GTIN</b>              | 785901706663 |
| <b>Returnability</b>     | Yes          |
| <b>Country of origin</b> | MX           |

## Packing Units

|                               |                     |
|-------------------------------|---------------------|
| <b>Unit Type of Package 1</b> | PCE                 |
| <b>Nbr. of units in pkg.</b>  | 1                   |
| <b>Package 1 Height</b>       | 5.70 in (14.478 cm) |
| <b>Package 1 Width</b>        | 7.40 in (18.796 cm) |

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|                         |                     |
|-------------------------|---------------------|
| <b>Package 1 Length</b> | 8.70 in (22.098 cm) |
|-------------------------|---------------------|

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|                            |                         |
|----------------------------|-------------------------|
| <b>Package weight(Lbs)</b> | 4.901 lb(US) (2.223 kg) |
|----------------------------|-------------------------|

## **Contractual warranty**

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|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 18 months |
|-----------------|-----------|



## 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

Carbon footprint (kg CO2 eq, Total Life cycle) 412

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic No

[EU RoHS Directive](#) Compliant with Exemptions

REACH Regulation [REACH Declaration](#)

California proposition 65 **WARNING:** This product can expose you to chemicals including: DINP, which is known to the State of California to cause cancer, and DIDP, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

PVC free Yes

## Use Again

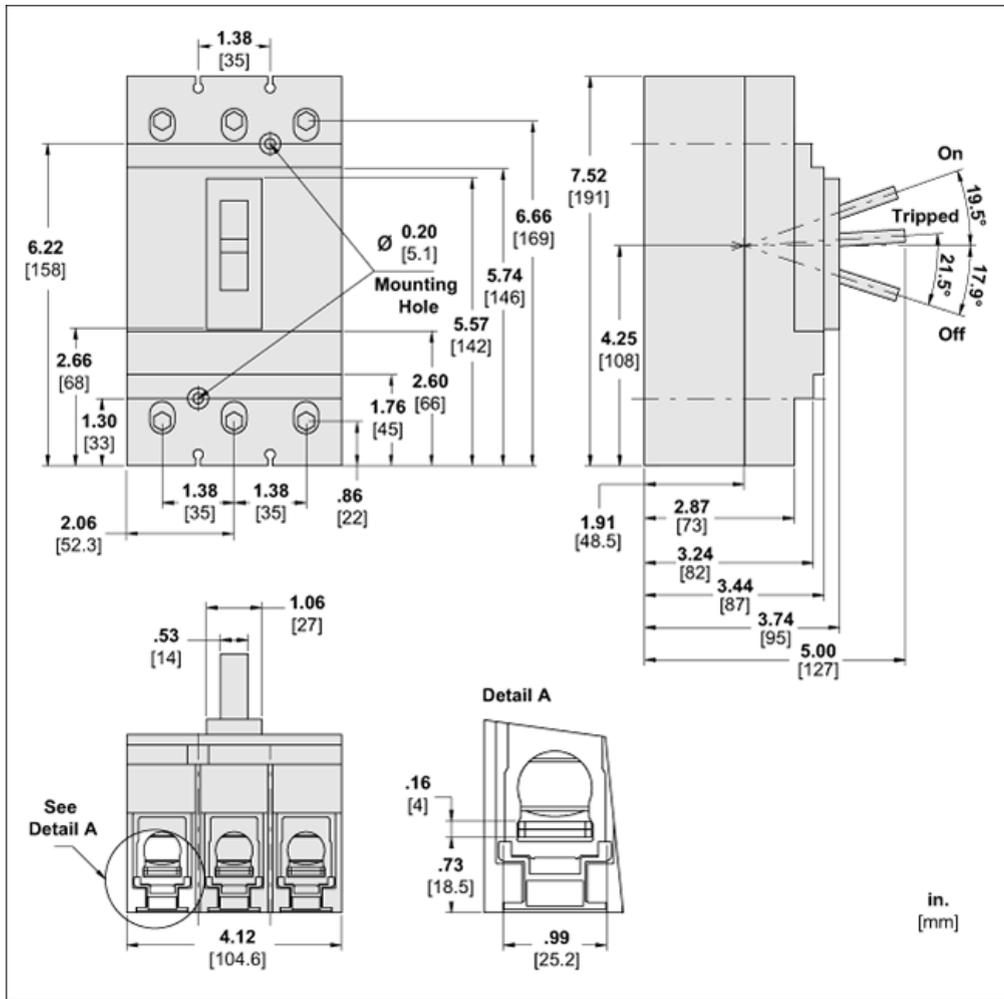
### Repack and remanufacture

Circularity Profile [End of Life Information](#)

Take-back No

Dimensions Drawings

Approximate Dimensions



Technical Illustration

Dimensions

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