# Product data sheet

Specifications

## Circuit breaker, PowerPacT R, 2500A, 3 pole, 600VAC, 50kA, busbar, Micrologic 5.0P, 80%, modbus

RLF36250U63AE1

## Main

| | |
|---|---|
| **Range** | PowerPact |
| **Product Name** | PowerPact R |
| **Product Or Component Type** | Circuit breaker |
| **Device Application** | Distribution |

## Complementary

| | |
|---|---|
| **Line Rated Current** | 2500 A |
| **Number Of Poles** | 3P |
| **Control Type** | Operating handle |
| **Breaking Capacity Code** | L |
| **Breaking Capacity** | AIR 125 kA 240 V AC 50/60 Hz UL 489<br>AIR 100 kA 480 V AC 50/60 Hz UL 489<br>AIR 50 kA 600 V AC 50/60 Hz UL 489<br>Icu 125 kA 240 V AC 50/60 Hz IEC 60947-2<br>Icu 85 kA 380/415 V AC 50/60 Hz IEC 60947-2 |
| **[Ue] Rated Operational Voltage** | 600 V AC 50/60 Hz UL 489 |
| **Network Frequency** | 50/60 Hz |
| **[Ics] Rated Service Breaking Capacity** | 65 kA 240 V AC 50/60 Hz IEC 60947-2<br>45 kA 380/415 V AC 50/60 Hz IEC 60947-2 |
| **[Uimp] Rated Impulse Withstand Voltage** | 8 kV IEC 60947-2 |
| **Trip Unit Technology** | Electronic, power, MicroLogic 5.0 P, LSI |
| **Continuous Current Rating** | 80 % |
| **[Ui] Rated Insulation Voltage** | 750 V IEC 60947-2 |
| **Trip Unit Name** | MicroLogic 5.0 P |
| **Suitability For Isolation** | Yes IEC 60947-2 |
| **Utilisation Category** | Category A |
| **Awg Gauge** | AWG 3/0...750 kcmil aluminium/copper |
| **Local Signalling** | Alarm 1 LED yellow)long-time pick up)<br>1 LED red)long-time pick up)<br>Trip causes 1 LED red)<br>1 LED red)digital ammeter)<br>Phase-loading LED green)load balancing) |
| **Mounting Mode** | Unit mount busbar) |
| **Mounting Support** | Busbar |
| **Electrical Connection** | Busbar connection, line<br>Busbar connection, load |

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

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

| | |
|---|---|
| **Terminal Identifier** | AL2500RK |
| **Tightening Torque** | 601.85 lbf.in (68 N.m) 0.08…0.62 in² (50…400 mm²) (AWG 1/0...750 kcmil)<br>601.85 lbf.in (68 N.m) 0.08…0.23 in² (50…150 mm²) (2 x AWG 1/0...2 x 300 kcmil) |
| **Number Of Slots** | 2 auxiliary switch OF plug-in)<br>1 alarm switch SD plug-in)<br>1 voltage release MN or MX plug-in) |
| **Power Wire Stripping Length** | 1.38 in (35 mm) |
| **Height** | 16.24 in (412.50 mm) |
| **Width** | 16.54 in (420.12 mm) |
| **Depth** | 14.49 in (368.05 mm) |
| **Net Weight** | 52 lb(US) (23.59 kg) |
| **Quantity Per Set** | 1 |
| **Communication Interface** | Modbus |
| **Circuit Breaker Application** | HACR rated |

## Environment

| | |
|---|---|
| **Quality Labels** | CE |
| **Standards** | UL<br>CSA<br>NEMA<br>NMX J-266<br>IEC 60947-2 |
| **Product Certifications** | UL<br>CSA<br>NOM |
| **Ip Degree Of Protection** | 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** | < 6561.68 ft (2000 m) without derating<br>13123.36 ft (4000 m) with derating |

## Ordering and shipping details

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|---|---|
| **Category** | 01245-RG,H,J,K,L,N UNIT MT BREAKERS |
| **Discount Schedule** | DE2 |
| **Returnability** | No |
| **Country Of Origin** | US |

## Packing Units

| | |
|---|---|
| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Weight** | 109.00 lb(US) (49.442 kg) |

## Contractual warranty

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

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

## Well-being performance

| | |
|---|---|
| Mercury Free | |
| Rohs Exemption Information | Yes |
| Pvc Free | |
| Halogen Free Plastic Parts Product | |

## Certifications & Standards

| | |
|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Compliant with Exemptions |
| **China Rohs Regulation** | China RoHS declaration<br>Product out of China RoHS scope. Substance declaration for your information. |
| **Environmental Disclosure** | Product Environmental Profile |
| **Circularity Profile** | End of Life Information |
| **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 |