

# Product data sheet

Specifications

SQUARE D

Green Premium™



Circuit breaker, PowerPacT L, 400A, 3 pole, 600VAC, 18kA, lugs, Micrologic 3.3, 80%

LGM36400U31X

## Main

|                           |                 |
|---------------------------|-----------------|
| Range                     | PowerPact       |
| Product name              | PowerPact L     |
| Device short name         | L-Frame         |
| Product or component type | Circuit breaker |
| Device application        | Distribution    |

## Complementary

|                                        |                                                                                                                                                                                               |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [In] rated current                     | 400 A                                                                                                                                                                                         |
| Number of Poles                        | 3P                                                                                                                                                                                            |
| Control type                           | Toggle                                                                                                                                                                                        |
| Breaking capacity code                 | G                                                                                                                                                                                             |
| Breaking capacity                      | 65 kA 240 V AC 50/60 Hz UL 489<br>35 kA 480 V AC 50/60 Hz UL 489<br>18 kA 600 V AC 50/60 Hz UL 489<br>20 kA 250 V DC UL 489<br>20 kA 500 V DC UL 489                                          |
| [Ue] rated operational voltage         | 600 V AC 50/60 Hz IEC 60947-3                                                                                                                                                                 |
| Network frequency                      | 50/60 Hz                                                                                                                                                                                      |
| [Ics] rated service breaking capacity  | 65 kA 220/240 V AC 50/60 Hz IEC 60947-2<br>35 kA 380/440/415 V AC 50/60 Hz IEC 60947-2<br>18 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                   | Electronic, standard, Micrologic 3.3, LI                                                                                                                                                      |
| Continuous current rating              | 80 %                                                                                                                                                                                          |
| [Ui] rated insulation voltage          | 750 V IEC 60947-2                                                                                                                                                                             |
| Trip unit name                         | Micrologic 3.3                                                                                                                                                                                |
| Protection technology                  | Current limiter                                                                                                                                                                               |
| Suitability for isolation              | Yes IEC 60947-2                                                                                                                                                                               |
| Utilisation category                   | Category A                                                                                                                                                                                    |
| AWG gauge                              | 2 x AWG 2/0...500 kcmil aluminum/copper                                                                                                                                                       |
| Local signalling                       | Ready 1 LED green)<br>Alarm 1 LED 90 % Ir orange)                                                                                                                                             |

|                                    |                                                                                                                                               |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | Alarm LED 105 % Ir red)<br>Switched off (OFF) 1 trip indicator green)                                                                         |
| Mounting mode                      | Unit mount lug)                                                                                                                               |
| Mounting support                   | Lug                                                                                                                                           |
| Electrical connection              | Lugs line<br>Terminal nut load                                                                                                                |
| Terminal identifier                | AL600LS52K3                                                                                                                                   |
| Long time pick-up adjustment range | 0.25...1 x In                                                                                                                                 |
| Tightening torque                  | 442.54 lbf.in (50 N.m) 0.11...0.37 in² (70...240 mm²) AWG 2/0...500 kcmil)                                                                    |
| 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        | 1.22 in (31 mm)<br>2.40 in (61 mm)                                                                                                            |
| Color                              | Black                                                                                                                                         |
| Height                             | 13.39 in (340 mm)                                                                                                                             |
| Width                              | 5.51 in (140 mm)                                                                                                                              |
| Depth                              | 4.33 in (110 mm)                                                                                                                              |
| Net weight                         | 13.67 lb(US) (6.2 kg)                                                                                                                         |
| Communication interface            | Modbus<br>Ethernet                                                                                                                            |
| Circuit breaker application        | HACR rated                                                                                                                                    |

## Environment

|                                       |                                                       |
|---------------------------------------|-------------------------------------------------------|
| 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 | 28...158 °F (-2...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

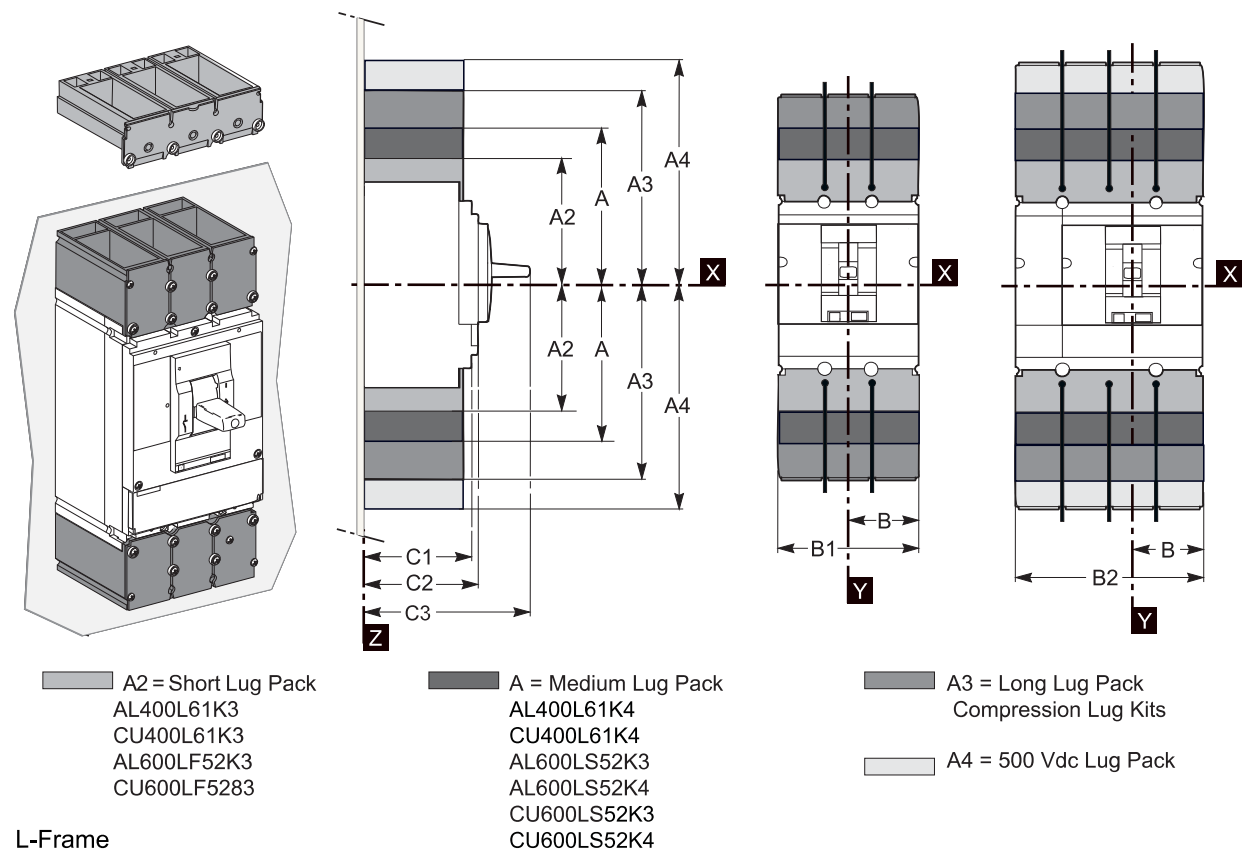
|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Number of Units in Package 1 | 1                       |
| Package 1 Height             | 8.75 in (22.225 cm)     |
| Package 1 Width              | 10.75 in (27.305 cm)    |
| Package 1 Length             | 19.50 in (49.53 cm)     |
| Package 1 Weight             | 15.00 lb(US) (6.804 kg) |

## Offer Sustainability

|                          |                       |
|--------------------------|-----------------------|
| Sustainable offer status | Green Premium product |
|--------------------------|-----------------------|

|                             |                                                                                                                       |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------|
| REACH Regulation            | <a href="#">REACH Declaration</a>                                                                                     |
| EU RoHS Directive           | Compliant<br><a href="#">EU RoHS Declaration</a>                                                                      |
| Mercury free                | Yes                                                                                                                   |
| China RoHS Regulation       | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information |
| RoHS exemption information  | <a href="#">Yes</a>                                                                                                   |
| Environmental Disclosure    | <a href="#">Product Environmental Profile</a>                                                                         |
| Circularity Profile         | <a href="#">End of Life Information</a>                                                                               |
| PVC free                    | Yes                                                                                                                   |
| <b>Contractual warranty</b> |                                                                                                                       |
| Warranty                    | 18 months                                                                                                             |

Dimensions



L-Frame

|      | A    | A2    | A3   | A4   | B    | B1   | B2   | C1   | C2   | C3   |
|------|------|-------|------|------|------|------|------|------|------|------|
| inch | 6.69 | 5.65  | 7.87 | 9.53 | 2.76 | 5.51 | 7.28 | 3.76 | 4.33 | 6.61 |
| mm   | 170  | 143.5 | 200  | 242  | 70   | 140  | 185  | 105  | 110  | 168  |

All dimensions are approximate.
Also see CAD, technical drawings, and technical documentation.

Recommended replacement(s)