

Product data sheet

Specifications



Circuit breaker, PowerPacT L, 600A,
3 pole, 600VAC, 14kA, lugs,
MicroLogic 3.3S, 80%

LDL36600U33X

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	600 A
Number of Poles	3P
Control type	Toggle
Breaking capacity code	D
Breaking capacity	25 kA at 240 V AC 50/60 Hz conforming to UL 489 18 kA at 480 V AC 50/60 Hz conforming to UL 489 14 kA at 600 V AC 50/60 Hz conforming to UL 489 20 kA at 250 V DC conforming to UL 489
[Ue] rated operational voltage	600 V AC 50/60 Hz conforming to IEC 60947-3
Network frequency	50/60 Hz
[Ics] rated service breaking capacity	25 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 18 kA at 380/440/415 V AC 50/60 Hz conforming to IEC 60947-2 14 kA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 20 kA at 250 V DC conforming to IEC 60947-2 20 kA at 500 V DC conforming to IEC 60947-2
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947-2
Trip unit technology	Electronic, standard, MicroLogic 3.3 S, LSI
Continuous current rating	80 %
[Ui] rated insulation voltage	750 V conforming to IEC 60947-2
Trip unit name	MicroLogic 3.3 S
Suitability for isolation	Yes conforming to IEC 60947-2
Utilisation category	Category A
AWG gauge	2 x AWG 2/0...500 kcmil aluminium/copper
Local signalling	Ready: 1 LED (green) Alarm: 1 LED 90 % Ir (orange) Alarm: LED 105 % Ir (red) Switched off (OFF): 1 trip indicator (green)
Mounting mode	Unit mount (lug)
Mounting support	Lug

Electrical connection	Lugs, line Lugs, load
Terminal identifier	AL600LS52K3
Long time pick-up adjustment range	0.25...1 x I _n
Tightening torque	50 N.m for 70...240 mm ² (2 x AWG 2/0...500 kcmil)
Number of slots	2 slot(s) for auxiliary switch OF (plug-in) 1 slot(s) for alarm switch SD (plug-in) 1 slot(s) for overcurrent trip switch SDE (plug-in) 1 slot(s) for voltage release MN or MX (plug-in)
Power wire stripping length	31 mm 61 mm
Color	Black
Height	340 mm
Width	140 mm
Depth	110 mm
Net weight	6.2 kg
Communication interface	Modbus Ethernet
Circuit breaker application	HACR rated

Environment

Standards	UL CSA NEMA NOM-003-SCFI-2000 IEC 60947-2
Product certifications	UL CSA NOM
IP degree of protection	Front cover: IP40
Pollution degree	3 conforming to IEC 60947-1
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-50...85 °C
Operating altitude	< 2000 m without derating 5000 m with derating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	24.9 cm
Package 1 Width	29.0 cm
Package 1 Length	50.3 cm
Package 1 Weight	7.75 kg

Contractual warranty

Warranty	18 months
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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 1160

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

PVC free Yes

Use Again

Repack and remanufacture

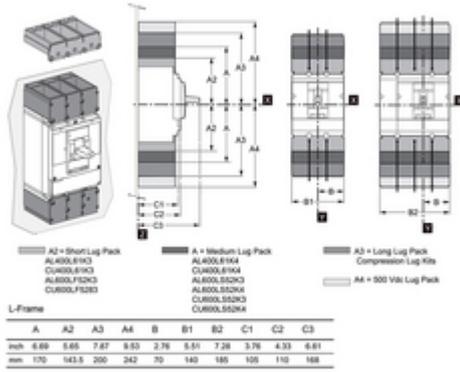
End of life manual availability [End of Life Information](#)

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

Dimensions



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