

Product data sheet

Specifications



Circuit breaker, PowerPacT L,
600A, 3 pole, 600VAC, 100kA, I-
Line, MicroLogic 6.3A, 80%, ABC

LRA36600U44X

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	R
Breaking capacity	200 kA 240 V AC 50/60 Hz UL 489 200 kA 480 V AC 50/60 Hz UL 489 100 kA 600 V AC 50/60 Hz 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	150 kA 220/240 V AC 50/60 Hz IEC 60947-2 125 kA 380/440/415 V AC 50/60 Hz IEC 60947-2 75 kA 500/525 V AC 50/60 Hz IEC 60947-2 20 kA 690 V AC 50/60 Hz IEC 60947-2
[Uimp] rated impulse withstand voltage	8 kV IEC 60947-2
Trip unit technology	Electronic, ammeter, MicroLogic 6.3 A, LSIG
Continuous current rating	80 %
[Ui] rated insulation voltage	750 V IEC 60947-2
Trip unit name	MicroLogic 6.3 A
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) Alarm 1 LED 90 % Ir orange) Alarm LED 105 % Ir red) Switched off (OFF) 1 trip indicator green)
Mounting mode	I-Line bracket)
Mounting support	Bracket

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

Electrical connection	I-Line connection, line Lugs, load
Terminal identifier	AL600LF52K3
Long time pick-up adjustment range	0.25...1 x In
Mounting height	6 in (152.4 mm)
Tightening torque	442.5 lbf.in (50 N.m) 0.1...0.4 in² (70...240 mm²) 2 x AWG 2/0...500 kcmil)
Number of slots	2 auxiliary switch OF plug-in) 1 alarm switch SD plug-in) 1 overcurrent trip switch SDE plug-in) 1 voltage release MN or MX plug-in)
Power wire stripping length	1.2 in (31 mm)
Color	Black
Height	13.4 in (340 mm)
Width	5.5 in (140 mm)
Depth	4.3 in (110 mm)
Net weight	13.7 lb(US) (6.2 kg)
Phase connection	ABC
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 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 5000 m with derating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.8 in (22.3 cm)
Package 1 Width	10.8 in (27.4 cm)
Package 1 Length	19.5 in (49.6 cm)
Package 1 Weight	0.22 oz (6.35 g)

Contractual warranty

Warranty (in months)	18
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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	1 156 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	41 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1 101 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	10 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	26b9e251-deae-4b64-8a82-edb49f66f806
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
PVC free	Yes

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Recyclability potential, in %	58
Circularity Profile	End of Life Information
Removable battery	No
Take-back	Nej

Technical Illustration

Dimensions

Offer Marketing Illustration

Product benefits / Features

PowerPacT L-Frame
Technical Features



Offer Marketing Illustration

Product benefits / Features

PowerPacT L-Frame
Molded Case Circuit Breakers



Scalable and sustainable

New breaker features enable scalable upgrades and are future-proof to meet environmental standards.



Reliable quality

New, intelligent guided design to increase confidence and ensure power reliability.



Innovative design

Designed for the future and for enhanced safety.

Offer Marketing Illustration

Product benefits / Features

PowerPacT L-Frame
Technical Benefits



- Available in 3 or 4-pole design
- Available from 250 to 600A, up to 600VAC and 250VDC
- 3 and 4-pole automatic molded case switches available at 400A and 600A.
- Interrupting ratings (AIC) include:
 - D-18kA, G-35kA, J-65kA and L-100kA at 480VAC.
 - 20kA at 250VDC.
- A wide range of field-installable accessories allows customers to reduce inventory without sacrificing flexibility.
- Easy to install, extremely versatile, a wide variety of terminal options include mechanical lugs, crimp lugs, power distribution lugs, and lug shields.
- UL 489 Listed, CSA, NEMA, NMX, VDE, BS, CCC, IEC certified and CE marked for global acceptance.

Offer Marketing Illustration

Product benefits / Features



PowerPacT L-Frame
Range Accessories



Visi-Trip toggle



Disconnect
mechanism



Current transformer



Interlock



Rotary handle



Shunt trip release



Power distribution connector