

Product data sheet

Specifications



Circuit breaker, PowerPacT L, 600A, 3 pole, 600VAC, 50kA, I-Line, MicroLogic 5.3E, 80%, ABC

LLA36600U53X

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range	PowerPact
Product name	PowerPact L
Device short name	L-Frame
Product or Component Type	Circuit breaker
Device Application	Distribution

Complementary

Line Rated Current	600 A
Number of Poles	3P
Control Type	Toggle
Breaking capacity code	L
Breaking capacity	125 kA 240 V AC 50/60 Hz UL 489 100 kA 480 V AC 50/60 Hz UL 489 50 kA 600 V AC 50/60 Hz UL 489 20 kA 250 V DC UL 489 50 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	125 kA 220/240 V AC 50/60 Hz IEC 60947-2 100 kA 380/440/415 V AC 50/60 Hz IEC 60947-2 50 kA 500/525 V AC 50/60 Hz IEC 60947-2 20 kA 250 V DC IEC 60947-2 20 kA 500 V DC IEC 60947-2
[Uimp] rated impulse withstand voltage	8 kV IEC 60947-2
Trip unit technology	Electronic, energy, MicroLogic 5.3 E, LSI
Continuous current rating	80 %
[Ui] rated insulation voltage	750 V IEC 60947-2
Trip unit name	MicroLogic 5.3 E
Protection technology	Current limiter
Suitability for isolation	Yes 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	I-Line bracket)

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

Mounting Support	Bracket
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)
Product 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	< 6561.68 ft (2000 m) without derating 5000 m with derating

Ordering and shipping details

Category	US10DE201118
Discount Schedule	0DE2
GTIN	3606487250920
Returnability	No
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
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Nbr. of units in pkg.	1
Package 1 Height	19.50 in (49.53 cm)
Package 1 Width	10.75 in (27.31 cm)
Package 1 Length	8.75 in (22.23 cm)
Package weight(Lbs)	13.7 lb(US) (6.2 kg)

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	1 169 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	50 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]	1 103 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	12 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
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
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 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	No

Technical Illustration

Dimensions

