

Product data sheet

Specifications

SQUARE D



Circuit breaker, PowerPacT H,
100A, 3 pole, 600VAC, 14kA,
busbar, thermal magnetic, 80%

HDF36100

Main

Range	PowerPact
Product name	PowerPact H
Product or component type	Circuit breaker
Device application	Distribution

Complementary

[In] rated current	100 A
Number of Poles	3P
Protected poles description	3t
Control type	Toggle
Breaking capacity code	D
Breaking capacity	25 kA 240 V AC 50/60 Hz UL 489 18 kA 480 V AC 50/60 Hz 14 kA 600 V AC 50/60 Hz 20 kA 250 V DC
[Ue] rated operational voltage	690 V AC 50/60 Hz IEC 60947-3
Network frequency	50/60 Hz
[Ics] rated service breaking capacity	25 kA 220/240 V AC 50/60 Hz IEC 60947-2 18 kA 380/440/415 V AC 50/60 Hz IEC 60947-2 14 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	Thermal-magnetic
Magnetic tripping current	1700 A
Magnetic hold current	900 A
Continuous current rating	80 %
[UI] rated insulation voltage	750 V IEC 60947-2
Suitability for isolation	Yes IEC 60947-2
Utilisation category	Category A
AWG gauge	AWG 14...AWG 3/0 aluminum/copper terminal
Local signalling	Switched off (OFF) 1 trip indicator green)
Mounting mode	Unit mount busbar)
Mounting support	Busbar

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	Busbar connection, line Busbar connection, load
Terminal identifier	AL150HD
Tightening torque	44.3 lbf.in (5 N.m) 0.004...0.009 in² (2.5...6 mm²) AWG 14...AWG 10) 123.9 lbf.in (14 N.m) 0.02...0.1 in² (10...95 mm²) AWG 8...AWG 3/0)
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	0.6 in (16 mm)
Color	Black
Height	6.4 in (163 mm)
Width	4.09 in (104 mm)
Depth	3.4 in (86 mm)
Net weight	4.9 lb(US) (2.2 kg)
Quantity per set	1
Communication interface	Modbus Ethernet
Circuit breaker application	HACR rated

Environment

Quality labels	CE
Standards	UL CSA NEMA NOM-003-SCFI-2000 IEC 60947-2
Product certifications	UL CSA NOM
IP degree of protection	Front cover IP40 IEC 60529
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	5.125 in (13.018 cm)
Package 1 Width	7.250 in (18.415 cm)
Package 1 Length	8.438 in (21.433 cm)
Package 1 Weight	3.999 lb(US) (1.814 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	241 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	9 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	228 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	3 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	F6740abd-d7a0-42b0-ba51-4931bf4d8226
PVC free	Yes

Use Longer



Lifetime extension

Repair	No
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Use Again

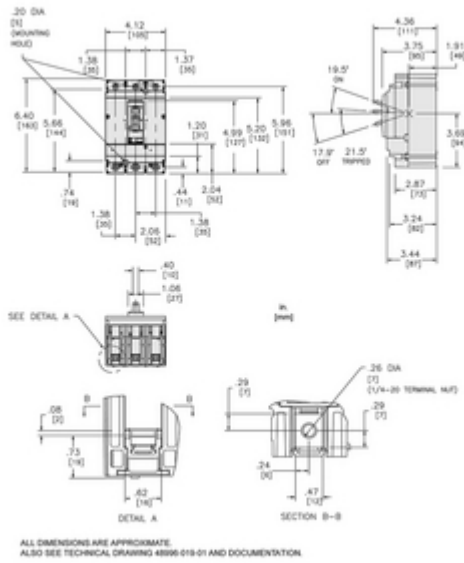


Repack and remanufacture

Recyclability potential, in %	45
Circularity Profile	End of Life Information
Take-back	No

Technical Illustration

Dimensions



Offer Marketing Illustration

Product benefits / Features

PowerPacT H-Frame
Molded Case Circuit Breakers



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



Reliable quality
For proven installation, dependable performance and enhanced productivity



Innovative design
Improved access to information for troubleshooting and operations

Offer Marketing Illustration

Product benefits / Features

PowerPacT H-Frame
Technical Features

• **Easy identification**

Transparent cover to quickly identify breaker accessories

• **Roto-active breaking system**

Reduce the effects of short circuits by limiting the let-through current levels

• **Three position slider**

Automatic position, manual position, padlock position to disconnect for maintenance

• **QR code**

Easy to access to user manual and relevant documents

• **LED Visi-Trip™ trip locator (optional)**

Reduce downtime with the industry's First LED Visi-Trip locator



Offer Marketing Illustration

Product benefits / Features



PowerPacT H-Frame
Range Accessories



Visi-Trip toggle



Phase barriers



Auxiliary switch



Mechanical lug



Shunt trip release



Lug shield

