

Product data sheet

Specifications



Mini circuit breaker, E-Frame, 45A, 1 pole, 277VAC, 25kA max, bolt on

EDB14045

Main

Range	125 A Frame EDB-EGB-EJB
Product Type	Miniature circuit-breaker
Device Short Name	EDB
Module Type	E-Frame
Trip Unit Rating	1800 A

Complementary

Rated Current	45 A
Maximum Operating Voltage	277 V AC
AWG Gauge	AWG 12...AWG 2/0 aluminium cable AWG 14...AWG 2/0 copper cable
Breaking Capacity	18 kA at 277 V AC 18 kA at 240 V AC 25 kA at 120 V AC 18 kA at 120/240 V AC
Circuit Breaker Application	HACR rated HID rated
Electrical Connection	Lugs aluminium
Holding Current	630 A
Local Signalling	Trip indicator
Mounting Mode	Bolt-on
Number of Poles	1
Number of Spaces	1
Number of Spaces Required	1
Product Destination	NF panelboard
Protect Type	Overload Short-circuit
Trip Unit Technology	Thermal-magnetic
Breaking Capacity Code	D
Tightening Torque	3.9 N.m for 2.5...6 mm ² (AWG 14...AWG 10) 5.6 N.m for 10...70 mm ² (AWG 8...AWG 2/0)
Height	143.76 mm
Width	24.89 mm
Depth	102.87 mm
Product Weight	0.9 kg

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

Environment

Product Certifications cULus
 IEC

Ambient Air Temperature for 40 °C
Operation

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.572 cm
Package 1 Width	15.494 cm
Package 1 Length	25.908 cm
Package 1 Weight	599.967 g



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

Environmental Disclosure

[Product Environmental Profile](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	8781af64-acd9-485c-9a86-abcd458e3
REACH Regulation	REACH Declaration

Use Again

Repack and remanufacture

End of life manual availability	End of Life Information
Take-back	No