Nov 15, 2026

Product data sheet

HDB3WL3C50

Characteristics

Miniature circuit breaker HDB3W - 18 mm AC - C - 3P - 4.5 kA - 50 A



Main

Range of product	HDB3w
Product or component type	Miniature circuit-breaker
Device application	Isolation Control
Poles description	3P
[In] rated current	50 A

Complementary

[Ue] rated operational voltage	415 V AC 50/60 Hz
Breaking capacity	4.5 kA
Dielectric test voltage	2.0 kV 50/60 Hz 1 min
[Uimp] rated impulse withstand voltage	4.0 kV
Magnetic tripping limit	5...10 x In
Curve code	C
[Ui] rated insulation voltage	250.0 V between phase and ground 500.0 V between phases
Suitability for isolation	Yes
Mounting support	35 mm DIN rail
Protection type	Overload protection Short-circuit protection
Cable entry	Top Bottom
Mechanical durability	25000 cycles
Electrical durability	6000 cycles
IP degree of protection	IP20
Overvoltage category	II
Provision for padlocking	Handle padlockable in on and off position
Connections - terminals	Forked type tag connectors
Clamping connection capacity	= 25 mm²
Tightening torque	3 N.m
Height	80 mm
Width	53.099999999999994 mm
Depth	78.5 mm
Embedding depth	61 mm
Net weight	0.272 kg

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Environment

Shock resistance	30 gn (duration = 11.0 ms) for 3 shocks
Ambient air temperature for operation	-20…60 °C
Trip unit technology	Thermal-magnetic
Ambient air temperature for storage	-40…70 °C
Operating altitude	0...2000 m
Product certifications	CE CB TÜV
Pollution degree	2
Standards	EN/IEC 60898-1

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.310 cm
Package 1 Width	8.000 cm
Package 1 Length	7.850 cm
Package 1 Weight	0.272 kg

Offer Sustainability

Sustainable packaging	No