

**Product data sheet**

**HDB3WN1C5050D**

**Characteristics**

**Miniature circuit breaker HDB3W - 18 mm AC - C - 1P - 6 kA - 50 A - 50degree**



**Main**

Range of product	HDB3w
Product or component type	Miniature circuit-breaker
Device application	Isolation Control
Poles description	1P
[In] rated current	50 A

**Complementary**

[Ue] rated operational voltage	240 V AC 50/60 Hz
Breaking capacity	6.0 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
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	
Tightening torque	3 N.m
Height	80 mm
Width	17.7 mm
Depth	78.5 mm
Embedding depth	61 mm

**Environment**

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