CDB6i-80 Miniature Standard Circuit Breaker

Product Overview



■ Main functions

Short circuit protection, overload protection, and disconnection functions

■ Applied standards

GB/T 10963.1、IEC60898-1

■ Certification compliance

CCC CE RoHS

■ Main features

Rated operating voltage (V)	1P：230/400、240/415 AC
	1P+N：230/240 AC
	2P, 3P, 3P+N, 4P：400/415 AC
Rated current (A)	80

Rated frequency (Hz)	50/60
Number of poles	1P, 1P+N, 2P, 3P, 3P+N, 4P
Breaking capacity (kA)	6

Product Selection

Product model	Number of poles	Trip type	Rated current
CDB6i-80	1	C	80
	1：1P 2：2P 3：3P 4：4P 5：1P+N 6：3P+N	B: B type C: C type D: D type	80：80A

Notes:
1. Those listed in the above table are the model selection rules for non-RoHS material; for RoHS compliant products, the model number is simply changed to CDB6R-80;
2. The product can be assembled with accessories OF, SD, MSN, MV, MN, MVMN, FF, FS, MO (with power), and MOWY (without power).

Technical Parameters

■ Electrical characteristics

Rated insulation voltage Ui (V)		500
Rated operating voltage Ue (V)	1P (V)	230/400、240/415 AC
	1P+N (V)	230/240 AC
	2P, 3P, 3P+N, 4P (V)	400/415 AC
Rated short circuit capacity		6
Rated impulse withstand voltage		4
Dielectric test voltage (kV)		2kV (50/60Hz, 1 minute)
Usage category		A

Disconnection function		Yes
Pollution level		2
Trip type		Thermal magnetic trip
Trip curve	B type curve (3In~5In)	■
	C type curve (5In~10In)	■
	D type curve (10In~14In)	■
Electrical and mechanical accessories		■

■ Mechanical characteristics

Handle		Red
Mechanical durability	Times	20000
Electrical durability	Times	10000
Protection grade		Installed in a distribution box: IP40 Installed directly: IP20
Mechanical shock resistance		30g, 3 shocks, duration 11 ms (in places without significant vibration and shock)

Vibration resistance (IEC/EN 60068-2-6)		In places without significant vibration and shock
Resistance to damp and heat (IEC 60068-2)	Damp and heat °C/RH	Class 2, 28 cycles When the temperature is 55°C, the relative humidity is 90%-96% When the temperature is 25°C, the relative humidity is 95%-100%
Reference ambient temperature	°C	30°C
Ambient working temperature (mean daily temperature ≤ +35°C)	°C	-35°C ~ +70°C
Storage temperature	°C	-40°C ~ +85°C

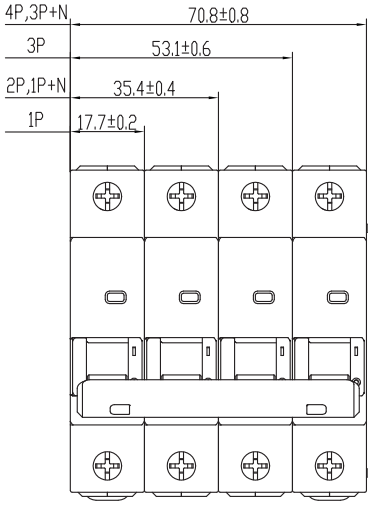
■ Installation characteristics

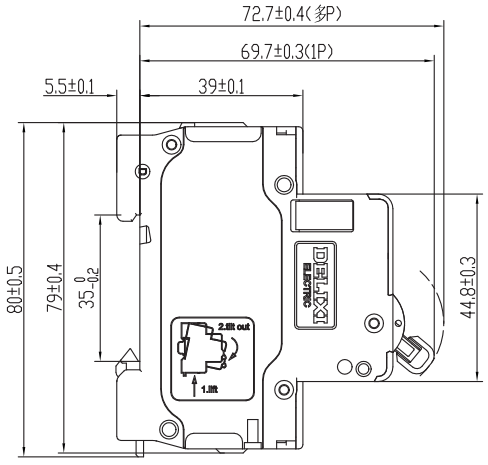
Terminal block form	U-shaped terminal block
Max. wiring capacity	Current grade 1-63(A): 50 mm²mm
Max. ultimate torque	Current grade 1-63(A): 3.5 N.m

Tools	Cross screwdriver or slotted screwdriver
Installation	Installed on the standard DIN rail (35mm)
Inlet method	Top inlet and bottom inlet

Outline and Installation Dimensions

■ Dimensional drawing





■ Wiring diagram

