DZ47sZ DC Miniature Circuit Breaker

Product Overview

■ Main Functions

Short circuit protection, overload protection, control, isolation



■ Standards

GB/T14048.2 IEC60947-2

■ Certification

CCC

■ Main Characteristics

Rated operating voltage (V)	1P:DC250V; 2P/3P:DC500V
Rated current (A)	1, 2, 3, 4, 5, 6, 8, 10, 13, 16, 20, 25, 32, 40, 50, 63A
Rated frequency (Hz)	50Hz
Number of poles	1P, 2P, 3P
Breaking capacity	6kA

Product Selection

Product name	Breaking capacity	Number of poles	Trip type	Rated current
DZ47sZ	Default	2	C	6
	↓	↓	↓	↓
	Default: Breaking 6kA 1P:DC250V 2P/3P:DC500V	1:1P 2:2P 3:3P	B: Type B C: Type C	1:1A 2:2A 3:3A ... 63:63A

Note: This product can be assembled with accessories OF, SD, MSN, MV, MN, MVMN, FF, FS, MO (active), MOWY (passive)

Technical Parameters

■ Electrical Characteristics

Rated insulation voltage Ui	(V)	500
Maximum operating voltage Ue	(V)	1P DC250V 2P/3P DC500V
Rated short-circuit capacity Icn	(kA)	6
Rated impulse withstand voltage Uimp (1.2/50)	(kV)	4
Dielectric test voltage		2kV(50/60HZ, 1 minute)
Isolation function		Yes

Pollution level		2
Tripping form		Thermomagnetic trip
Thermomagnetic tripping characteristics	B type curve	Protection for loads with low short-circuit current Tripping characteristics: instantaneous tripping range (4.4 ~ 6.6) In
	C type curve	Protection of conventional loads and power distribution cables Tripping characteristics: instantaneous tripping range (6.8 ~ 10.2) In
Electrical and mechanical accessories		■

■ Mechanical Characteristics

Mechanical durability	Times	20000
Electrical durability	Times	6000
Protection level	Installed in the distribution box	IP40
	Direct installation	IP20
Mechanical shock resistance		30g, 3 shocks, duration 11ms (Where there is no significant vibration and shock)
Vibration resistance (IEC/EN 60068-2-6)		Where there is no significant vibration or shock

Resistance to heat and humidity (IEC 60068-2)	Damp heat °C/RH	Class 2, 28 cycles, Temperature 55°C, relative humidity 90% ~ 96% Temperature 25°C, relative humidity 95% ~ 100%
Rated ambient temperature	°C	30°C
Operating ambient temperature (daily average temperature ≤ + 35°C)	°C	-35°C~+70°C
Storage temperature	°C	-40°C~+85°C

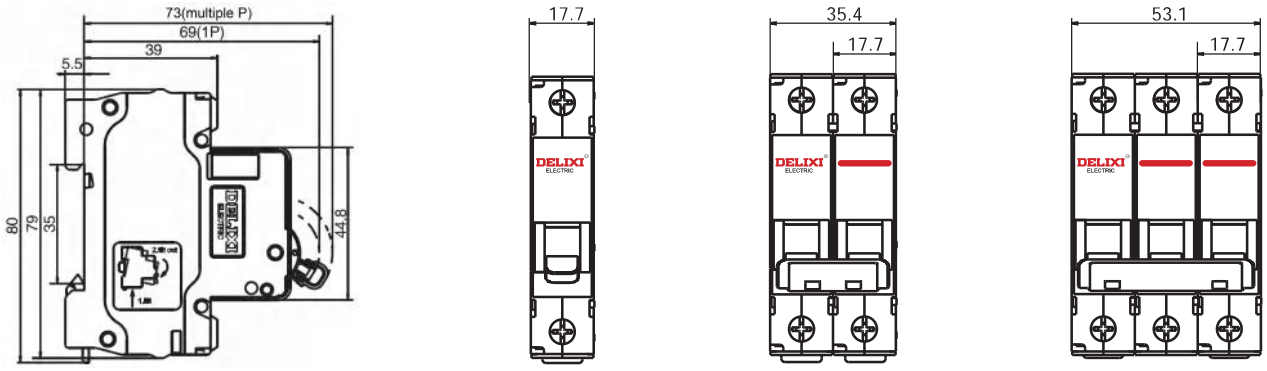
■ Installation Characteristics

Terminal form	Tunnel type terminal block
Maximum wiring capacity	2.5N.m
Maximum limit torque	25mm^2

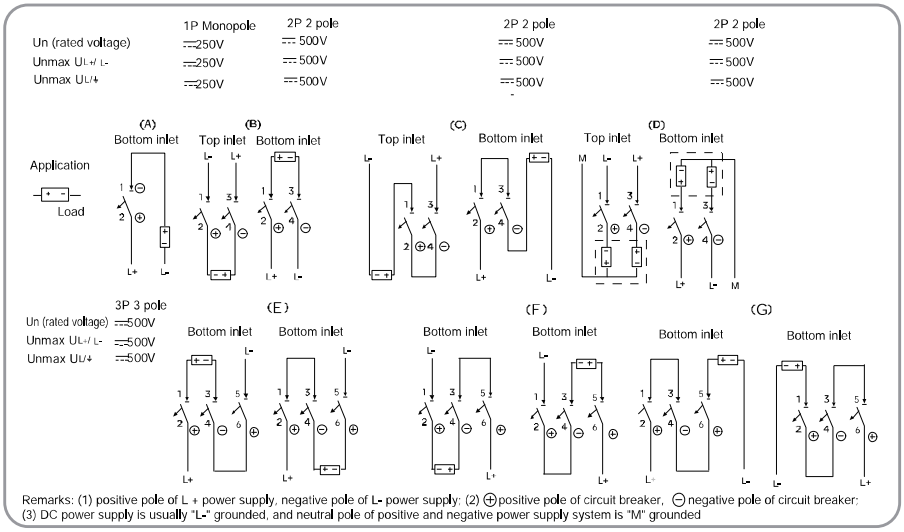
Tool	Cross head screwdriver or flat head screwdriver
Installation	Installed in the standard DIN rail (35mm)
Line incoming type	Wiring shall be conducted in strict accordance with the wiring mode specified in the instruction

Outline and Installation Dimensions

■ Dimensional Drawing



■ Wiring Diagram



Remarks: (1) positive pole of L + power supply, negative pole of L- power supply; (2) ⊕positive pole of circuit breaker, ⊖negative pole of circuit breaker; (3) DC power supply is usually "L-" grounded, and neutral pole of positive and negative power supply system is "M" grounded