Elektrizität

SNX80L Residual Current operated Circuit-breaker

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Product Usage

SNX80L Series Residual Current operated Circuit-breaker is suitable for AC 50Hz/60Hz rated voltage 230V/415V, rated current from 80A in the line, with leakage electric shock, overload, short circuit and other protective functions, to protect personal safety and prevent equipment due to the occurrence of leakage current caused by accidents, and can be used to protect the line overloads and short circuits, under normal circumstances as a line infrequent disconnection and switching under normal circumstances as infrequent line breaking and switching, the rated residual action current leakage circuit breaker can provide direct protection for personal electric shock.

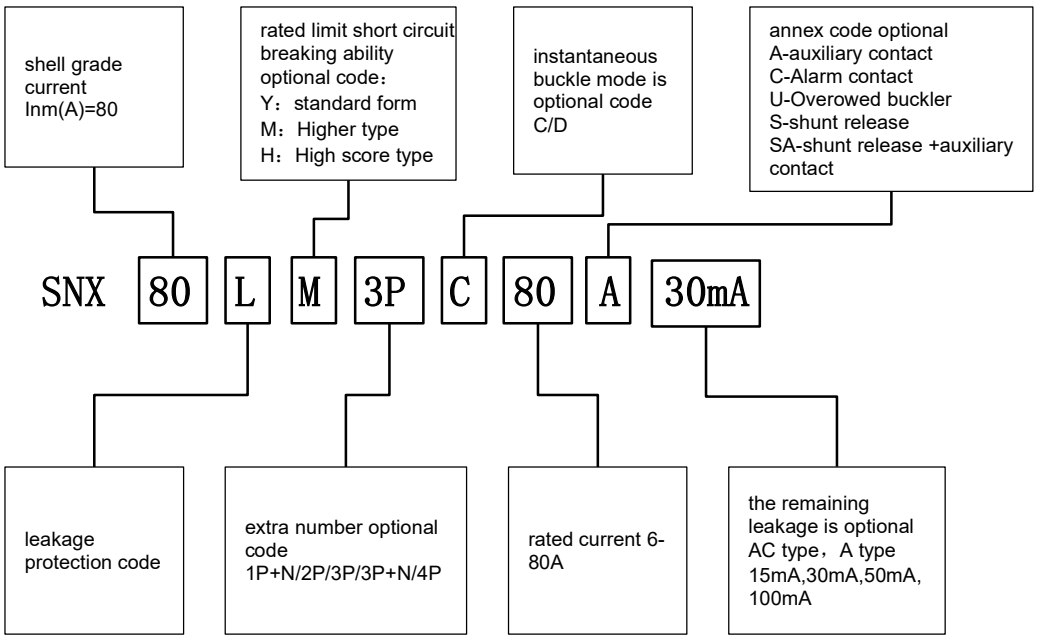
Features

1. High frame current, high breaking capacity, and strong accessory applicability;
2. The terminal block is equipped with an anti-miswiring terminal and a contact position indication window, which is safer ;
3. Current-limiting contact system and magnetic blow-out arc extinguishing device prevent products and equipment from being subjected to large short-circuit currents and improve the arc extinguishing performance of products.Capacity to ensure the improvement of breaking capacity;
4. The shell and some functional parts are made of imported highly flame-retardant, high-temperature-resistant and impact-resistant plastics;
5. Novel appearance, reasonable structure, small size, and protected by multiple patents;
6. Rated residual operating current is adjustable;
7.N pole has overload protection function.

Normal use conditions

1. Installation location altitude:≤2000m;
2. Operating ambient temperature: - 5 ~ + 40 ℃;
3. Heat and humidity resistance: Category 2, pollution level: Level 3;
4. Relative air humidity: no more than 95% at +20°C; no more than 50% at +40°C;
5. Installation environment: Place without significant vibration and impact, installation category: Level III, installation method: DIN standard rail.

Quick selection table



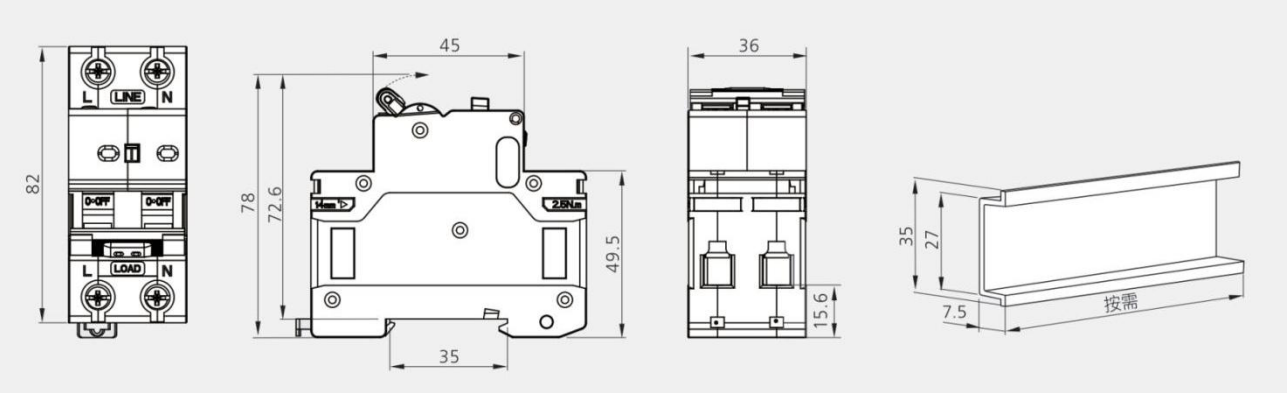
Technical Parameters

Circuit breaker model		SNX 80 LY		SNX80LM		SNX80LH	
Frame rating current		80A					
Standards compliant		GB 16917.1 、 IEC 61009-1					
Number of poles		1P+N	2P	3P	3P+N	4P	
Neutral		Openable and closable			Openable and closable		
Rated operating current		6A 、 10A 、 16A , 20A 、 25A 、 32A , 40A , 50A 、 63A , 80A					
Rated operating voltage		230V(1P+N,2P)/415V(3P,3P+N,4P)					
Rated residual operating current		AC Type, A Type 15 mA , 30 mA , 50 mA , 100 mA					
frequency		50 Hz					
Rated insulation voltage		5 00V					
Rated impulse withstand voltage		4 kV					
Instantaneous tripping mode		C		D			
		5~10 In		10~20 In			
Tripping type		Thermal Magnetic					
Operating short circuit capability		4.5 kA		6 k		7.5 k	
Rated short-circuit breaking capacity		4.5 k		6 k		10 k	
Service life	mechanical average value	20000					
	electric average value	10000					
Wiring Capacity		35 mm² and below conductors					
Auxiliary contact		□					
Alarm contact		□					
Shunt release		□					
Undervoltage release		□					
Overvoltage release		□					
Protection level	All sides	IP40					
	Connection port	IP20					
Handle lock		ON / OFF Location					
Operating ambient temperature		-5 ~ + 40 ℃					
Moisture and heat resistance		2 kind					
altitude		≤2000					
relative humidity		At +20℃, no more than 95%; at +40℃, no more than 50%					
pollution level		3					
Installation Environment		Where there is no significant vibration or shock					
Installation category		III class					
Installation method		DIN Standard guide rail					
Overall dimensions (mm)	Width	36	36	54	72	72	
	high	82	82	99	99	99	
	deep	78	78	78	78	78	

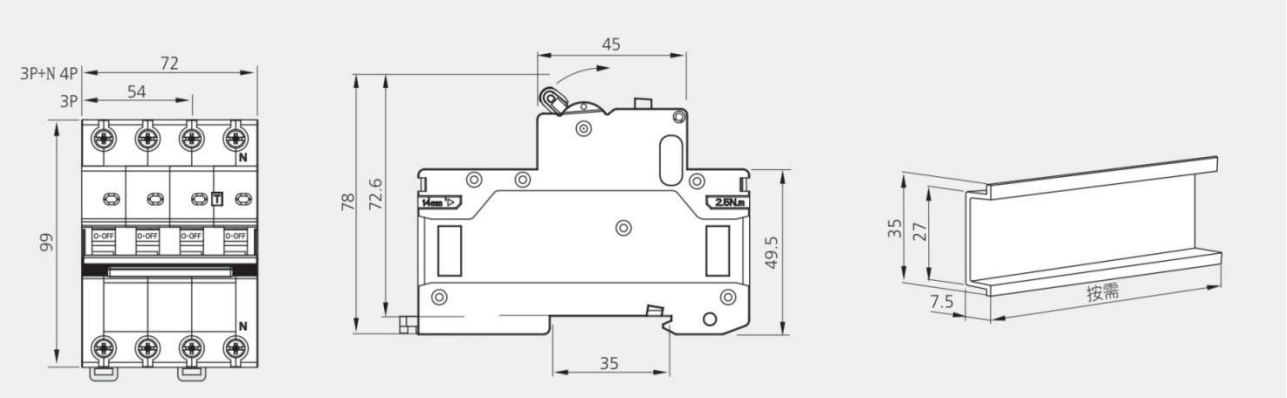
□Optional

Dimensions

1P+N/2P



3P/3P+N/4P



Circuit breaker accessories

Scope of application

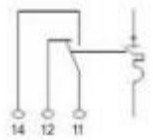
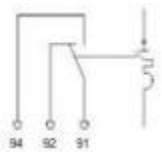
This series of circuit breaker accessories is specially designed by our company SNX 80L Auxiliary functional components designed to match the series of circuit breakers , in the electrical circuits of homes and buildings, Choose different electrical accessories and SNX 80L Series circuit breakers are used in conjunction withTo realize remote control of circuit breakers, provide auxiliary signals, opening and closing status Indicate and provide alarm signal functions to better protect the safety of lines, people and property.

The name, purpose and standards of circuit breaker accessories

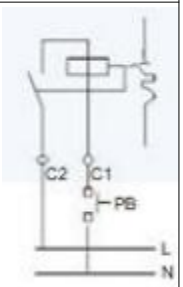
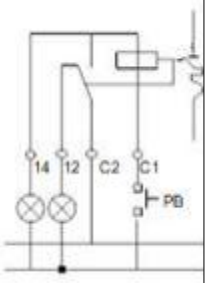
accessory name	Code	use
Auxiliary contact	A	Provide auxiliary signals to control auxiliary circuits
Alarm contact	C	When the circuit breaker is disconnected due to a fault in the protected line, an alarm signal is provided
Shunt release	S	When the control voltage exceeds 70%~110% of the rated voltage , the circuit breaker trips. Current line protection
Overvoltage and undervoltage release	U	When the control voltage is lower than the rated voltage When the load is between 35% and 70%, the circuit breaker trips to achieve Line protection
Shunt release + auxiliary contact head	SA	Remotely disconnect the circuit and control the auxiliary circuit through auxiliary contacts

The main technical parameters

Technical parameters of auxiliary contacts and alarm contacts

accessory name	Rated current			Number of contacts per group	Wiring Diagram
	AC :380V	AC :220V	DC :110V		
Auxiliary contact A	3	6	1	Normally open Normally closed	
Alarm contact C	3	6	1	Normally open Normally closed	

Technical parameters of shunt release, shunt release + auxiliary switch and undervoltage release

accessory name	Rated insulation voltage Ui	Rated control power supply voltage Us	Tripping power consumption (W or VA)	Pull-in voltage	Wiring Diagram
Shunt release S	415V	AC / DC :220~380V 110V~220V	240	(0.7~1.1)Us	
		AC / DC : 24~48V	120		
Shunt release + auxiliary contact SA	415V	AC / DC :220~380V 110V~220V	240	(0.7~1.1) Us	
		AC / DC :24~48V	120		
Overvoltage and undervoltage release U	415V	AC / DC :220~240V	120	(0.7~1.1) Us