

Model and Meaning

EXB9L-125 1P+N 25 30mA 10kA Type B

- Leakage type:Type B, Type B+
- Breaking capacity: 10kA
- Rated sensitivity (I△n): 30mA (default), 100mA, 300mA
- Current(In): 16A, 25A, 32A, 40A, 63A
- Poles: 1P+N, 3P+N
- Frame

General

1.1Function

EXB9L-125 type B and type B+ is appearance design, compact structure, good reliability, and high safety. They are universal residual current circuit breaker.

Residual current circuit breaker type B are suitable for domestic as well as industrial applications, where are used frequency inverters , PV plant, EV chargers and similar elements. B type provides a sensitivity to residual AC, pulsating and smooth DC current, together with high frequencies up to 1kHz.

Residual current circuit breaker type B+ meet full type B feature , with additional tripping values are defined up to20KHz and they are below 420mA.

They are based on electronic technology, which brings advantages of more accurate measuring of residual current and, as a consequence, reduction of unwanted tripping. These devices also do not suffer with magnetization of the tripping unit.

1.2 Selection

Detectable wave form

Type B

Tripping is ensured for sinusoidal AC residual currents pulsed DC residual currents, alternating residual sinusoidal currents up to 1000Hz, pulsating direct residual currents and for smooth direct residual currents, whether applied suddenly or increasing slowly.

Type B+ kHz

Meet full type B feature, with additional tripping values are defined up to 20KHz and they are below 420mA.

Tripping sensitivity

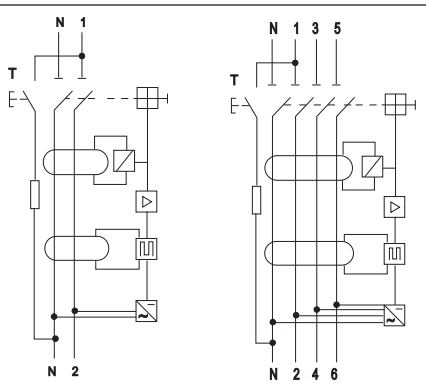
30mA additional protection against direct contact.100mA - co - ordinated with the earth system according to the formula IΔn < 50/R, to provide protection against indirect contacts;

300mA - protection against indirect contacts, as well as fire hazard

Tripping time

Instantaneous It ensures instantaneous tripping(without time-delay)

Wiring Diagrams



Wire Connection

Before installation, check whether technical parameter of the circuit breaker is in conformity with user's requirement. The conductor of power supply shall be connected to the up terminal of circuit breaker. During installation, the tightening torque is max 2.5N.m. The sectional area of connecting wire can refer

to Table 1.

In A	S(Cu) mm²
16,20	2.5
25	4
32	6
40	10
63	16

EXB9L-125 Residual Current Operated Circuit Breaker (Magnetic) (TypeB/B+)

CE

Technical Parameter

	Standard		IEC/EN62423 & IEC/EN61008-1
Electrical features	Type (wave form of the earth leakage sensed)		Type B ; Type B+
	Rated current In	A	16,25,32,40,63
	Poles		1P+N,3P+N
	Rated voltage Ue	V	1P+N:230/240V~ ; 3P+N:400/415V~;
	Rated sensitivity I △n	A	0.03,0.1,0.3
	Insulation voltage Ui	V	500
	Rated residual making and breaking capacity I △m	A	500(In=16A/25A/32A/40A)
			630(In=63A)
	Conditional rated short circuit current (Inc/I△c)	A	10000
	SCPD fuse	A	10000
	break time under I△n	s	≤0.1
	Rated frequency	Hz	1
	Rated impulse withstand voltage(1.2/50) Uimp	V	4000
	Dielectric test voltage ct ind. Freq. for 1 min	KV	2
	Pollution degree		2
Mechanical features	Electrical life		4000
	Mechanical life		4000
	Fault current indicator		Yes
	Protection degree		IP20
	Ambient temperature (with daily average≤35℃)	℃	-25...+40
	Storage temperature	℃	-25.....+70
Installation	Terminal connection type		Cable/U-type busbar / Pin-type busbar
	Terminal size top/bottom for cable	mm^2	25/35
		AWG	18-3/18-2
	Terminal size top/bottom for busbar	mm^2	10/16
		AWG	18-8/18-5
	Tightening torque	N·m	2.5
		In - lbs	22
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip device
	Connection		From top or bottom

Overall and Mounting Dimensions

