

NXL-63 Residual Current Operated Circuit Breaker without over-current protection (Magnetic)

1. General

1.1 Function

Control electric circuits.

Protect people against indirect contacts and additional protection against direct contacts.

Protect installations against fire hazard due to insulation faults.

Residual current circuit breakers are used in housing, tertiary sector and industry.

1.2 Selection

Detectable wave form

AC class

Tripping is ensured for slowly increasing sinusoidal AC residual currents.

A class

Tripping is ensured for sinusoidal AC residual currents and for pulsed DC residual currents, whether applied suddenly or increasing slowly.

Tripping sensitivity

10mA - precision instrument leakage protection and bathroom use.

30mA - additional protection against direct contact.

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

Tripping time

Instantaneous

It ensures instantaneous tripping (without time-delay).

G/SI class

Tripping is ensured not only for sinusoidal AC residual currents

but also for pulsed DC residual currents whether applied suddenly or increasing slowly. S, G/SI type with filters against


spurious tripping caused by harmonics and transient surges.

With the impact of 8/20us surge 3000A, this high immunity RCCB will still be in stable status.

1.3 Approvals and certificates

Detailed information, please refer to Certificates Table on the last page.

2. Technical data

	Standard		IEC/EN 61008-1
Electrical features	Type (wave form of the earth leakage sensed)		AC, A, SI, G Breaking time ≤0.1(Normal type), 10ms~300ms(G/SI type).
	Rated current I _n	A	16, 25, 32, 40, 63
	Poles		1P+N, 3P+N
	Rated voltage U _e	V	230/400~240/415, 110/200~127/220
	Rated sensitivity I _{Δn}	A	0.01 (Only for 1P+N 16A, 25A,32A), 0.03, 0.3, 0.5(Only for AC)
	Insulation voltage U _i	V	500
	Rated residual making and breaking capacity I _{Δm}	A	500 (I _n =16A/25A/32A/40A) 630 (I _n =63A)
	Short-circuit current I _{nc} =I _{Δc}	A	6000/10000
	SCPD fuse	A	 10000
	break time under I _{Δn}	s	≤0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50) U _{imp}	V	6000
	Mechanical features	Dielectric test voltage at ind. Freq. for 1 min	kV
Pollution degree			2
Electrical life			2,000
Mechanical life			2,000
Fault current indicator			Yes
Protection degree			IP20
Installation	Ambient temperature (with daily average ≤35 C)	C	-5...+40
	Storage temperature	C	-25...+70
	Terminal connection type		Cable/U-type busbar/Pin-type busbar
	Terminal size top/bottom for busbar	mm ²	25
		AWG	18-3
	Terminal size top/bottom for busbar	mm ²	10
		AWG	18-8
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 and bottom	

3. Overall and mounting dimensions (mm)

