NBSL1-100 6kA RCCB

NBSe®

Residual Current Circuit Breaker

*Standard_* IEC61008-1

Technical Data

Electrical Features	Mode	Electromagnetic
	Type	AC,A,G,S
	Rated current In	80,100A
	Poles	2P(1P+N),4P(3P+N)
	Rated voltage Ue	2P 240V~
		4P 415V~
	Insulation voltage Ui	500V
	Rated frequency	50/60Hz
	Rated residual operation current(I△n)	30,100,300mA
	Rated residual making and breaking capacity (I△m)	630
	Short-circuit current Inc= I△c	6,000A
	SCPD fuse	6000
	Break time under I△n	⩽0.1S
	Rated impulse withstand voltage(1.5/50) Uimp	4000V
	Dielectric test voltage at ind.Freq. for 1min	2.5kV
	Electrical life	2,000 Cycles
	Mechanical life	4,000 Cycles

Installation	Contact position indicator	Yes
	Protection degree	IP20
	Ambient temperature(with daily average⩽35°C)	-5°C~+40°C
	Storage temperature	-25°C~+70°C
	Terminal connection type	Cable/Pin-type busbar
	Terminal size top/bottom for cable	35mm² 18-2AWG
	Terminal size top/bottom for busbar	35mm² 18-2AWG
	Tightening torque	2.5Nm 22In-lbs
	Mounting	On DIN rail EN60715(35mm) by means of fast clip device
	Connection	From top and bottom

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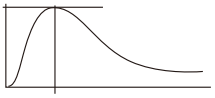
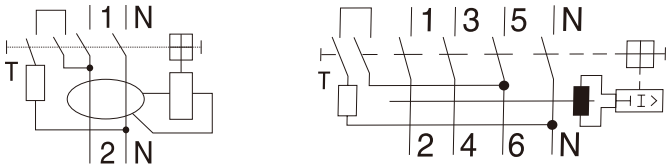
Tripping Current Range

Type	Tripping current I△/A		
AC	0.5I△n<I△<I△n		
A	Lagging Angle	I△n>0.01A	I△n≤0.01A
	0°	0.35I△n≤I△≤1.4I△n	0.35I△n≤I△≤2I△n
	90°	0.25I△n≤I△≤1.4I△n	0.25I△n≤I△≤2I△n
	135°	0.11I△n≤I△≤1.4I△n	0.11I△n≤I△≤2I△n

Alternative Current Sensitive	Pulsating direct current sensitive	Surge current proof
		
They react to AC current which, whether suddenly applied or slowly arising.	They react to AC and pulsating DC fault current which reach 0 or almost 0 within one time period of the mains frequency.	RCCB’ s surge capacity. Not tripping at standardized 8/20 us surge-current waves acc.to VDE 0432 Part 2 with surge current values of up to 250A.

Circuit Diagram



Overall and Installation Dimension(mm)