

# EKL6-100B 10KA B Type RCCB


**ETEK®**

Residual Current Circuit Breaker

Standard\_ IEC61008-1  
IEC62423



## Technical Data

Electrical Features	Mode	Electromagnetic
	Type(wave form of the earth leakage sensed)	B
	Rated current $I_n$	25,40,63,80,100A
	Poles	2P,4P
	Rated voltage $U_e$	2P 240V~, 4P 415V~
	Insulation voltage $U_i$	500V
	Rated frequency	50/60Hz
	Rated residual operation current( $I_{\Delta n}$ )	30, 100, 300mA
	Rated residual making and breaking capacity ( $I_{\Delta m}$ )	500A( $I_n \leq 40A$ ), 10In( $I_n > 40A$ )
	Short-circuit current $I_{nc} = I_{\Delta c}$	10,000A
	SCPD fuse	 10000
	Break time under $I_{\Delta n}$	$\leq 0.1s$
	Rated impulse withstand voltage(1.5/50) $U_{imp}$	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 $\leq 35^\circ C$ )	$-5^\circ C \sim +40^\circ C$
	Storage temperature	$-25^\circ C \sim +70^\circ C$
	Terminal connection type	Cable/Pin-type busbar/U-type busbar
	Terminal size top/bottom for cable	35mm <sup>2</sup> 18-3AWG
	Terminal size top/bottom for busbar	35mm <sup>2</sup> 18-3AWG
	Tightening torque	2.5Nm 22In-lbs
	Mounting	On DIN rail EN60715(35mm) by means of fast clip device
	Connection	Power supply in both directions


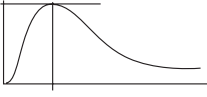
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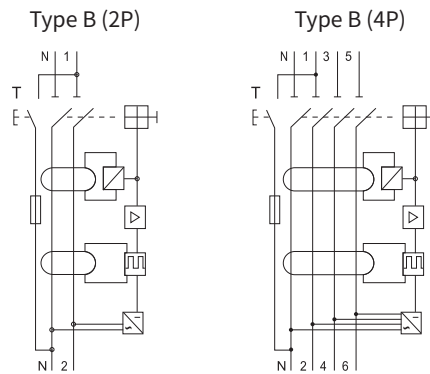
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Tripping Current Range	Lagging Angle	$I_{\Delta n} > 0.01A$	$I_{\Delta n} \leq 0.01A$
	0°	$0.35I_{\Delta n} \leq I_{\Delta} \leq 1.4I_{\Delta n}$	$0.35I_{\Delta n} \leq I_{\Delta} \leq 2I_{\Delta n}$
	90°	$0.25I_{\Delta n} \leq I_{\Delta} \leq 1.4I_{\Delta n}$	$0.25I_{\Delta n} \leq I_{\Delta} \leq 2I_{\Delta n}$
	135°	$0.11I_{\Delta n} \leq I_{\Delta} \leq 1.4I_{\Delta n}$	$0.11I_{\Delta n} \leq I_{\Delta} \leq 2I_{\Delta n}$

Alternative Current Sensitive	Pulsating direct current sensitive	Surge current proof
<p>B class</p> <p>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.</p>	 <p>They react to AC and pulsating DC fault current which reach 0 or almost 0 within one time period of the mains frequency.</p>	 <p>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.</p>

## Circuit Diagram



## Overall and Installation Dimension(mm)

