EKL5-63B 6KA RCBO

B TYPE RCCB with Overcurrent Protection

Standard_ IEC61009-1 / IEC62423

Technical Data

Electrical Features	Mode	Electronic
	Type	B
	Rated current In	16,20,25,32,40,50,63A
	Poles	2P(1P+N),4P(3P+N)
	Rated voltage Ue	2P 240V~
		4P 415V~
	Insulation voltage Ui	500V
	Rated frequency	50/60Hz
	Rated residual operating current(I△n)	30,100,300mA
	Break time under I△n	⩽0.1s(S type ＜0.5s)
	Rated breaking capacity	6,000A
	Energy limiting class	3
	Rated impulse withstand voltage(1.5/50) Uimp	4,000V
	Dielectric test voltage at ind.Freq. for 1min	2kV
	Pollution degree	2
	Thermo-magnetic release characteristic	B,C
Mechanical Features	Electrical life	4,000 Cycles
	Mechanical life	10,000 Cycles
	Contact position indicator	Yes
	Protection degree	IP20
	Reference temperature for setting of thermal element	30°C
	Ambient temperature (with daily average⩽35°C)	-5°C~+40°C
	Storage temperature	-25°C~+70°C
Installation	Terminal connection type	Cable/Pin-type busbar/U-type busbar
	Terminal size top/bottom for cable	25mm² 18-3AWG
	Terminal size top/bottom for busbar	25mm² 18-3AWG
	Tightening torque	2.5Nm 22In-lbs
	Mounting	On DIN rail EN60715(35mm) by means of fast clip device
	Connection	From top
Combination with accessories	Auxiliary contact	EKM1-OF
	Alarm contact	EKM1-FB
	Shunt release	EKM1-MX

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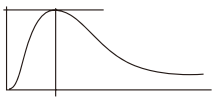
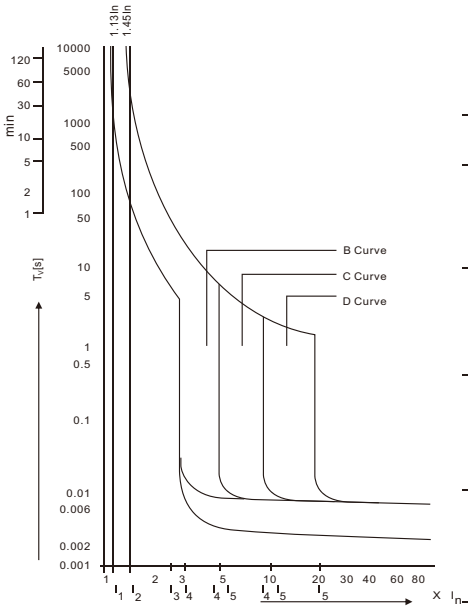
Tripping Current Range

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

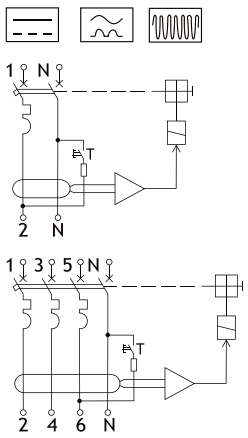
Detectable wave form	Pulsating direct current sensitive	Surge current proof
B class Tripping is ensured for sinusoidal AC residual currents pulsed DC residual currents, alternating residual sinusoidal currents up to 1000Hz, pulsating direct residual currents and for smooth direct residual currents, whether applied suddenly or increasing slowly.	 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.

Characteristics Curves



	Thermal Tripping			Magnetic Tripping		
As per IEC60898	No tripping current	Tripping current I_2	Time Limits t	Hold current I_4	Trip current I_5	Time Limits t
B Curve	1.13×I_N	1.45×I_N	⩾1h <1h	3×I_N	5×I_N	⩾0.1s <0.1s
C Curve	1.13×I_N	1.45×I_N	⩾1h <1h	5×I_N	10×I_N	⩾0.1s <0.1s
D Curve	1.13×I_N	1.45×I_N	⩾1h <1h	10×I_N	20×I_N	⩾0.1s <0.1s

Circuit Diagram



Overall and Installation Dimension(mm)