



Technical Data

Electrical Features

Rated current In	1,2,6,8,10,12,16,20,25,32,40,50,63
Poles	1P, 1P+N, 2P, 3P, 3P+N, 4P
Rated voltage Ue	230/400 V
Insulation voltage Ui	500 V
Rated frequency	50/60 Hz
Rated breaking capacity	6000 A
Energy limiting class	3
Rated impulse withstand voltage (1.5/50) Uimp	4000 V
Dielectric test voltage at industrial frequency for 1 min	2 kV
Pollution degree	2
Thermo-magnetic release characteristic	8-12In
Tripping curve characteristic	B, C, D

Mechanical Features

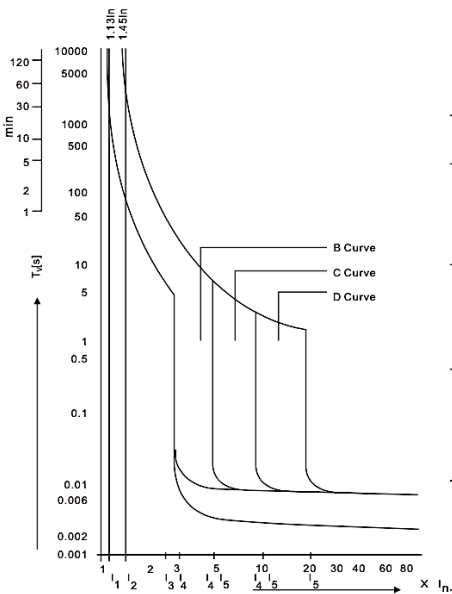
Electrical life	4000 cycles (up to 8000 cycles)
Mechanical life	10000 cycles (up to 20000 cycles)
Contact position indicator	Yes
Protection degree	IP20
Reference temperature for setting of thermal elements	30°C
Ambient temperature (with daily average ≤ 35°C)	-5°C ~ +40°C
Storage temperature	-25°C ~ +70°C

Installation

Terminal connection type	Cable/Pin-type busbar
Terminal size top/bottom for cable	25 mm ²
Terminal size top/bottom for busbar	25 mm ²
Tightening torque	2,5Nm
Mounting	DIN rail EN 60715 (35mm)
Connection	Power supply in both directions

Characteristics

Curves



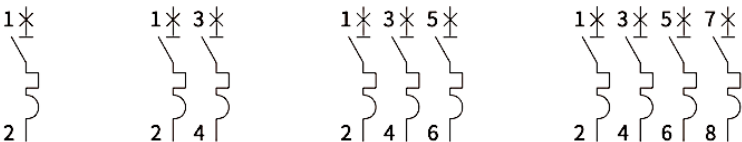
Thermal Tripping				Magnetic Tripping		
As per IEC60898	No tripping current	Tripping current I_2	Time Limits t	Hold current I_4	Trip current I_5	Time Limits t
B Curve	$1.13 \times I_N$		$\geq 2h$ $< 1h$	$3 \times I_N$		$\geq 0.1s$ $< 0.1s$
		$1.45 \times I_N$			$5 \times I_N$	
C Curve	$1.13 \times I_N$		$\geq 2h$ $< 1h$	$5 \times I_N$		$\geq 0.1s$ $< 0.1s$
		$1.45 \times I_N$			$10 \times I_N$	
D Curve	$1.13 \times I_N$		$\geq 2h$ $< 1h$	$10 \times I_N$		$\geq 0.1s$ $< 0.1s$
		$1.45 \times I_N$			$20 \times I_N$	

Tripping characteristics

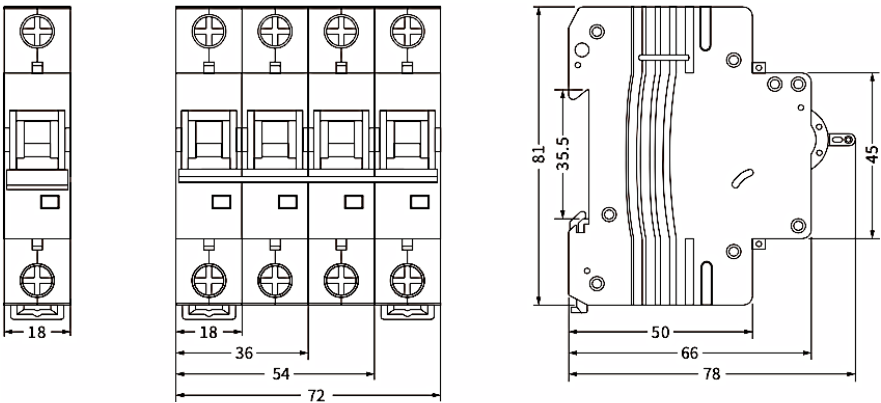
Based on the Tripping Characteristics, MCB are available in “B”, “C”, and “D” curve to suit different types of applications.

- “B” Curve for protection of electrical circuits with equipment that does not cause surge current (lighting and distribution circuits). Short circuit release is set to $(3-5) \times I_N$.
- “C” Curve for protection of electrical circuits with equipment that cause surge current (inductive loads and motor circuits). Short circuit release is set to $(5-10) \times I_N$.
- “D” Curve for protection of electrical circuits with cause high inrush current ,typically 12 - 15 times the thermal rated current (transformers, x-ray machines etc.). Short circuit release is set to $(10-20) \times I_N$.

Circuit Diagram



Overall and Installation Dimension (mm)



	Product	Product code	Ordering product code
Ordering information	1P 1A, tripping curve B	EKM12-63X B1	EKM12-63X 1A
	1P 1A, tripping curve C	EKM12-63X C1	EKM12-63X 1A
	1P 1A, tripping curve D	EKM12-63X D1	EKM12-63X 1A
	1P 2A, tripping curve B	EKM12-63X B2	EKM12-63X 2A
	1P 2A, tripping curve C	EKM12-63X C2	EKM12-63X 2A
	1P 2A, tripping curve D	EKM12-63X D2	EKM12-63X 2A
	1P 6A, tripping curve B	EKM12-63X B6	EKM12-63X 6A
	1P 6A, tripping curve C	EKM12-63X C6	EKM12-63X 6A
	1P 6A, tripping curve D	EKM12-63X D6	EKM12-63X 6A
	1P 8A, tripping curve B	EKM12-63X B8	EKM12-63X 8A
	1P 8A, tripping curve C	EKM12-63X C8	EKM12-63X 8A
	1P 8A, tripping curve D	EKM12-63X D8	EKM12-63X 8A
	1P 10A, tripping curve B	EKM12-63X B10	EKM12-63X 10A
	1P 10A, tripping curve C	EKM12-63X C10	EKM12-63X 10A
	1P 10A, tripping curve D	EKM12-63X D10	EKM12-63X 10A
	1P 12A, tripping curve B	EKM12-63X B12	EKM12-63X 12A
	1P 12A, tripping curve C	EKM12-63X C12	EKM12-63X 12A
	1P 12A, tripping curve D	EKM12-63X D12	EKM12-63X 12A
	1P 16A, tripping curve B	EKM12-63X B16	EKM12-63X 16A
	1P 16A, tripping curve C	EKM12-63X C16	EKM12-63X 16A
	1P 16A, tripping curve D	EKM12-63X D16	EKM12-63X 16A
	1P 20A, tripping curve B	EKM12-63X B20	EKM12-63X 20A
	1P 20A, tripping curve C	EKM12-63X C20	EKM12-63X 20A
	1P 20A, tripping curve D	EKM12-63X D20	EKM12-63X 20A
	1P 25A, tripping curve B	EKM12-63X B25	EKM12-63X 25A
	1P 25A, tripping curve C	EKM12-63X C25	EKM12-63X 25A
	1P 25A, tripping curve D	EKM12-63X D25	EKM12-63X 25A
	1P 32A, tripping curve B	EKM12-63X B32	EKM12-63X 32A
	1P 32A, tripping curve C	EKM12-63X C32	EKM12-63X 32A
	1P 32A, tripping curve D	EKM12-63X D32	EKM12-63X 32A
	1P 40A, tripping curve B	EKM12-63X B40	EKM12-63X 40A
	1P 40A, tripping curve C	EKM12-63X C40	EKM12-63X 40A
	1P 40A, tripping curve D	EKM12-63X D40	EKM12-63X 40A
	1P 50A, tripping curve B	EKM12-63X B50	EKM12-63X 50A
	1P 50A, tripping curve C	EKM12-63X C50	EKM12-63X 50A
	1P 50A, tripping curve D	EKM12-63X D50	EKM12-63X 50A
	1P 63A, tripping curve B	EKM12-63X B63	EKM12-63X 63A
	1P 63A, tripping curve C	EKM12-63X C63	EKM12-63X 63A
	1P 63A, tripping curve D	EKM12-63X D63	EKM12-63X 63A
	1P+N 1A, tripping curve B	EKM12-63X B1	EKM12-63X 1A
	1P+N 1A, tripping curve C	EKM12-63X C1	EKM12-63X 1A
	1P+N 1A, tripping curve D	EKM12-63X D1	EKM12-63X 1A
	1P+N 2A, tripping curve B	EKM12-63X B2	EKM12-63X 2A
	1P+N 2A, tripping curve C	EKM12-63X C2	EKM12-63X 2A
	1P+N 2A, tripping curve D	EKM12-63X D2	EKM12-63X 2A
	1P+N 6A, tripping curve B	EKM12-63X B6	EKM12-63X 6A
	1P+N 6A, tripping curve C	EKM12-63X C6	EKM12-63X 6A
	1P+N 6A, tripping curve D	EKM12-63X D6	EKM12-63X 6A
	1P+N 8A, tripping curve B	EKM12-63X B8	EKM12-63X 8A
	1P+N 8A, tripping curve C	EKM12-63X C8	EKM12-63X 8A
	1P+N 8A, tripping curve D	EKM12-63X D8	EKM12-63X 8A
	1P+N 10A, tripping curve B	EKM12-63X B10	EKM12-63X 10A
	1P+N 10A, tripping curve C	EKM12-63X C10	EKM12-63X 10A
	1P+N 10A, tripping curve D	EKM12-63X D10	EKM12-63X 10A

Product	Product code	Ordering product code
1P+N 12A, tripping curve B	EKM12-63X B12	EKM12-63X 12A
1P+N 12A, tripping curve C	EKM12-63X C12	EKM12-63X 12A
1P+N 12A, tripping curve D	EKM12-63X D12	EKM12-63X 12A
1P+N 16A, tripping curve B	EKM12-63X B16	EKM12-63X 16A
1P+N 16A, tripping curve C	EKM12-63X C16	EKM12-63X 16A
1P+N 16A, tripping curve D	EKM12-63X D16	EKM12-63X 16A
1P+N 20A, tripping curve B	EKM12-63X B20	EKM12-63X 20A
1P+N 20A, tripping curve C	EKM12-63X C20	EKM12-63X 20A
1P+N 20A, tripping curve D	EKM12-63X D20	EKM12-63X 20A
1P+N 25A, tripping curve B	EKM12-63X B25	EKM12-63X 25A
1P+N 25A, tripping curve C	EKM12-63X C25	EKM12-63X 25A
1P+N 25A, tripping curve D	EKM12-63X D25	EKM12-63X 25A
1P+N 32A, tripping curve B	EKM12-63X B32	EKM12-63X 32A
1P+N 32A, tripping curve C	EKM12-63X C32	EKM12-63X 32A
1P+N 32A, tripping curve D	EKM12-63X D32	EKM12-63X 32A
1P+N 40A, tripping curve B	EKM12-63X B40	EKM12-63X 40A
1P+N 40A, tripping curve C	EKM12-63X C40	EKM12-63X 40A
1P+N 40A, tripping curve D	EKM12-63X D40	EKM12-63X 40A
1P+N 50A, tripping curve B	EKM12-63X B50	EKM12-63X 50A
1P+N 50A, tripping curve C	EKM12-63X C50	EKM12-63X 50A
1P+N 50A, tripping curve D	EKM12-63X D50	EKM12-63X 50A
1P+N 63A, tripping curve B	EKM12-63X B63	EKM12-63X 63A
1P+N 63A, tripping curve C	EKM12-63X C63	EKM12-63X 63A
1P+N 63A, tripping curve D	EKM12-63X D63	EKM12-63X 63A
2P 1A, tripping curve B	EKM12-63X B1	EKM12-63X 1A
2P 1A, tripping curve C	EKM12-63X C1	EKM12-63X 1A
2P 1A, tripping curve D	EKM12-63X D1	EKM12-63X 1A
2P 2A, tripping curve B	EKM12-63X B2	EKM12-63X 2A
2P 2A, tripping curve C	EKM12-63X C2	EKM12-63X 2A
2P 2A, tripping curve D	EKM12-63X D2	EKM12-63X 2A
2P 6A, tripping curve B	EKM12-63X B6	EKM12-63X 6A
2P 6A, tripping curve C	EKM12-63X C6	EKM12-63X 6A
2P 6A, tripping curve D	EKM12-63X D6	EKM12-63X 6A
2P 8A, tripping curve B	EKM12-63X B8	EKM12-63X 8A
2P 8A, tripping curve C	EKM12-63X C8	EKM12-63X 8A
2P 8A, tripping curve D	EKM12-63X D8	EKM12-63X 8A
2P 10A, tripping curve B	EKM12-63X B10	EKM12-63X 10A
2P 10A, tripping curve C	EKM12-63X C10	EKM12-63X 10A
2P 10A, tripping curve D	EKM12-63X D10	EKM12-63X 10A
2P 12A, tripping curve B	EKM12-63X B12	EKM12-63X 12A
2P 12A, tripping curve C	EKM12-63X C12	EKM12-63X 12A
2P 12A, tripping curve D	EKM12-63X D12	EKM12-63X 12A
2P 16A, tripping curve B	EKM12-63X B16	EKM12-63X 16A
2P 16A, tripping curve C	EKM12-63X C16	EKM12-63X 16A
2P 16A, tripping curve D	EKM12-63X D16	EKM12-63X 16A
2P 20A, tripping curve B	EKM12-63X B20	EKM12-63X 20A
2P 20A, tripping curve C	EKM12-63X C20	EKM12-63X 20A
2P 20A, tripping curve D	EKM12-63X D20	EKM12-63X 20A
2P 25A, tripping curve B	EKM12-63X B25	EKM12-63X 25A
2P 25A, tripping curve C	EKM12-63X C25	EKM12-63X 25A
2P 25A, tripping curve D	EKM12-63X D25	EKM12-63X 25A
2P 32A, tripping curve B	EKM12-63X B32	EKM12-63X 32A
2P 32A, tripping curve C	EKM12-63X C32	EKM12-63X 32A
2P 32A, tripping curve D	EKM12-63X D32	EKM12-63X 32A

Product	Product code	Ordering product code
2P 40A, tripping curve B	EKM12-63X B40	EKM12-63X 40A
2P 40A, tripping curve C	EKM12-63X C40	EKM12-63X 40A
2P 40A, tripping curve D	EKM12-63X D40	EKM12-63X 40A
2P 50A, tripping curve B	EKM12-63X B50	EKM12-63X 50A
2P 50A, tripping curve C	EKM12-63X C50	EKM12-63X 50A
2P 50A, tripping curve D	EKM12-63X D50	EKM12-63X 50A
2P 63A, tripping curve B	EKM12-63X B63	EKM12-63X 63A
2P 63A, tripping curve C	EKM12-63X C63	EKM12-63X 63A
2P 63A, tripping curve D	EKM12-63X D63	EKM12-63X 63A
3P 1A, tripping curve B	EKM12-63X B1	EKM12-63X 1A
3P 1A, tripping curve C	EKM12-63X C1	EKM12-63X 1A
3P 1A, tripping curve D	EKM12-63X D1	EKM12-63X 1A
3P 2A, tripping curve B	EKM12-63X B2	EKM12-63X 2A
3P 2A, tripping curve C	EKM12-63X C2	EKM12-63X 2A
3P 2A, tripping curve D	EKM12-63X D2	EKM12-63X 2A
3P 6A, tripping curve B	EKM12-63X B6	EKM12-63X 6A
3P 6A, tripping curve C	EKM12-63X C6	EKM12-63X 6A
3P 6A, tripping curve D	EKM12-63X D6	EKM12-63X 6A
3P 8A, tripping curve B	EKM12-63X B8	EKM12-63X 8A
3P 8A, tripping curve C	EKM12-63X C8	EKM12-63X 8A
3P 8A, tripping curve D	EKM12-63X D8	EKM12-63X 8A
3P 10A, tripping curve B	EKM12-63X B10	EKM12-63X 10A
3P 10A, tripping curve C	EKM12-63X C10	EKM12-63X 10A
3P 10A, tripping curve D	EKM12-63X D10	EKM12-63X 10A
3P 12A, tripping curve B	EKM12-63X B12	EKM12-63X 12A
3P 12A, tripping curve C	EKM12-63X C12	EKM12-63X 12A
3P 12A, tripping curve D	EKM12-63X D12	EKM12-63X 12A
3P 16A, tripping curve B	EKM12-63X B16	EKM12-63X 16A
3P 16A, tripping curve C	EKM12-63X C16	EKM12-63X 16A
3P 16A, tripping curve D	EKM12-63X D16	EKM12-63X 16A
3P 20A, tripping curve B	EKM12-63X B20	EKM12-63X 20A
3P 20A, tripping curve C	EKM12-63X C20	EKM12-63X 20A
3P 20A, tripping curve D	EKM12-63X D20	EKM12-63X 20A
3P 25A, tripping curve B	EKM12-63X B25	EKM12-63X 25A
3P 25A, tripping curve C	EKM12-63X C25	EKM12-63X 25A
3P 25A, tripping curve D	EKM12-63X D25	EKM12-63X 25A
3P 32A, tripping curve B	EKM12-63X B32	EKM12-63X 32A
3P 32A, tripping curve C	EKM12-63X C32	EKM12-63X 32A
3P 32A, tripping curve D	EKM12-63X D32	EKM12-63X 32A
3P 40A, tripping curve B	EKM12-63X B40	EKM12-63X 40A
3P 40A, tripping curve C	EKM12-63X C40	EKM12-63X 40A
3P 40A, tripping curve D	EKM12-63X D40	EKM12-63X 40A
3P 50A, tripping curve B	EKM12-63X B50	EKM12-63X 50A
3P 50A, tripping curve C	EKM12-63X C50	EKM12-63X 50A
3P 50A, tripping curve D	EKM12-63X D50	EKM12-63X 50A
3P 63A, tripping curve B	EKM12-63X B63	EKM12-63X 63A
3P 63A, tripping curve C	EKM12-63X C63	EKM12-63X 63A
3P 63A, tripping curve D	EKM12-63X D63	EKM12-63X 63A
3P+N 1A, tripping curve B	EKM12-63X B1	EKM12-63X 1A
3P+N 1A, tripping curve C	EKM12-63X C1	EKM12-63X 1A
3P+N 1A, tripping curve D	EKM12-63X D1	EKM12-63X 1A
3P+N 2A, tripping curve B	EKM12-63X B2	EKM12-63X 2A
3P+N 2A, tripping curve C	EKM12-63X C2	EKM12-63X 2A
3P+N 2A, tripping curve D	EKM12-63X D2	EKM12-63X 2A

Product	Product code	Ordering product code
3P+N 6A, tripping curve B	EKM12-63X B6	EKM12-63X 6A
3P+N 6A, tripping curve C	EKM12-63X C6	EKM12-63X 6A
3P+N 6A, tripping curve D	EKM12-63X D6	EKM12-63X 6A
3P+N 8A, tripping curve B	EKM12-63X B8	EKM12-63X 8A
3P+N 8A, tripping curve C	EKM12-63X C8	EKM12-63X 8A
3P+N 8A, tripping curve D	EKM12-63X D8	EKM12-63X 8A
3P+N 10A, tripping curve B	EKM12-63X B10	EKM12-63X 10A
3P+N 10A, tripping curve C	EKM12-63X C10	EKM12-63X 10A
3P+N 10A, tripping curve D	EKM12-63X D10	EKM12-63X 10A
3P+N 12A, tripping curve B	EKM12-63X B12	EKM12-63X 12A
3P+N 12A, tripping curve C	EKM12-63X C12	EKM12-63X 12A
3P+N 12A, tripping curve D	EKM12-63X D12	EKM12-63X 12A
3P+N 16A, tripping curve B	EKM12-63X B16	EKM12-63X 16A
3P+N 16A, tripping curve C	EKM12-63X C16	EKM12-63X 16A
3P+N 16A, tripping curve D	EKM12-63X D16	EKM12-63X 16A
3P+N 20A, tripping curve B	EKM12-63X B20	EKM12-63X 20A
3P+N 20A, tripping curve C	EKM12-63X C20	EKM12-63X 20A
3P+N 20A, tripping curve D	EKM12-63X D20	EKM12-63X 20A
3P+N 25A, tripping curve B	EKM12-63X B25	EKM12-63X 25A
3P+N 25A, tripping curve C	EKM12-63X C25	EKM12-63X 25A
3P+N 25A, tripping curve D	EKM12-63X D25	EKM12-63X 25A
3P+N 32A, tripping curve B	EKM12-63X B32	EKM12-63X 32A
3P+N 32A, tripping curve C	EKM12-63X C32	EKM12-63X 32A
3P+N 32A, tripping curve D	EKM12-63X D32	EKM12-63X 32A
3P+N 40A, tripping curve B	EKM12-63X B40	EKM12-63X 40A
3P+N 40A, tripping curve C	EKM12-63X C40	EKM12-63X 40A
3P+N 40A, tripping curve D	EKM12-63X D40	EKM12-63X 40A
3P+N 50A, tripping curve B	EKM12-63X B50	EKM12-63X 50A
3P+N 50A, tripping curve C	EKM12-63X C50	EKM12-63X 50A
3P+N 50A, tripping curve D	EKM12-63X D50	EKM12-63X 50A
3P+N 63A, tripping curve B	EKM12-63X B63	EKM12-63X 63A
3P+N 63A, tripping curve C	EKM12-63X C63	EKM12-63X 63A
3P+N 63A, tripping curve D	EKM12-63X D63	EKM12-63X 63A
4P 1A, tripping curve B	EKM12-63X B1	EKM12-63X 1A
4P 1A, tripping curve C	EKM12-63X C1	EKM12-63X 1A
4P 1A, tripping curve D	EKM12-63X D1	EKM12-63X 1A
4P 2A, tripping curve B	EKM12-63X B2	EKM12-63X 2A
4P 2A, tripping curve C	EKM12-63X C2	EKM12-63X 2A
4P 2A, tripping curve D	EKM12-63X D2	EKM12-63X 2A
4P 6A, tripping curve B	EKM12-63X B6	EKM12-63X 6A
4P 6A, tripping curve C	EKM12-63X C6	EKM12-63X 6A
4P 6A, tripping curve D	EKM12-63X D6	EKM12-63X 6A
4P 8A, tripping curve B	EKM12-63X B8	EKM12-63X 8A
4P 8A, tripping curve C	EKM12-63X C8	EKM12-63X 8A
4P 8A, tripping curve D	EKM12-63X D8	EKM12-63X 8A
4P 10A, tripping curve B	EKM12-63X B10	EKM12-63X 10A
4P 10A, tripping curve C	EKM12-63X C10	EKM12-63X 10A
4P 10A, tripping curve D	EKM12-63X D10	EKM12-63X 10A
4P 12A, tripping curve B	EKM12-63X B12	EKM12-63X 12A
4P 12A, tripping curve C	EKM12-63X C12	EKM12-63X 12A
4P 12A, tripping curve D	EKM12-63X D12	EKM12-63X 12A
4P 16A, tripping curve B	EKM12-63X B16	EKM12-63X 16A
4P 16A, tripping curve C	EKM12-63X C16	EKM12-63X 16A
4P 16A, tripping curve D	EKM12-63X D16	EKM12-63X 16A

Product	Product code	Ordering product code
4P 20A, tripping curve B	EKM12-63X B20	EKM12-63X 20A
4P 20A, tripping curve C	EKM12-63X C20	EKM12-63X 20A
4P 20A, tripping curve D	EKM12-63X D20	EKM12-63X 20A
4P 25A, tripping curve B	EKM12-63X B25	EKM12-63X 25A
4P 25A, tripping curve C	EKM12-63X C25	EKM12-63X 25A
4P 25A, tripping curve D	EKM12-63X D25	EKM12-63X 25A
4P 32A, tripping curve B	EKM12-63X B32	EKM12-63X 32A
4P 32A, tripping curve C	EKM12-63X C32	EKM12-63X 32A
4P 32A, tripping curve D	EKM12-63X D32	EKM12-63X 32A
4P 40A, tripping curve B	EKM12-63X B40	EKM12-63X 40A
4P 40A, tripping curve C	EKM12-63X C40	EKM12-63X 40A
4P 40A, tripping curve D	EKM12-63X D40	EKM12-63X 40A
4P 50A, tripping curve B	EKM12-63X B50	EKM12-63X 50A
4P 50A, tripping curve C	EKM12-63X C50	EKM12-63X 50A
4P 50A, tripping curve D	EKM12-63X D50	EKM12-63X 50A
4P 63A, tripping curve B	EKM12-63X B63	EKM12-63X 63A
4P 63A, tripping curve C	EKM12-63X C63	EKM12-63X 63A
4P 63A, tripping curve D	EKM12-63X D63	EKM12-63X 63A

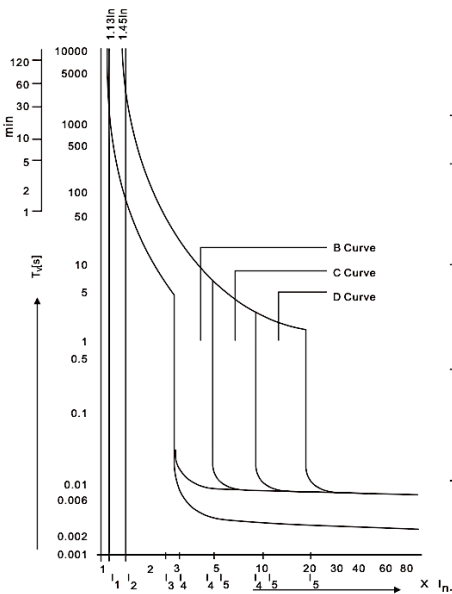


Technical Data

Electrical Features	Rated current In	63,80,100,120,125A
	Poles	1P, 1P+N, 2P, 3P, 3P+N, 4P
	Rated voltage Ue	230/400 V
	Insulation voltage Ui	500 V
	Rated frequency	50/60 Hz
	Rated breaking capacity	6000 A
	Energy limiting class	3
	Rated impulse withstand voltage (1.5/50) Uimp	4000 V
	Dielectric test voltage at industrial frequency for 1 min	2 kV
	Pollution degree	2
	Thermo-magnetic release characteristic	8-12In
	Tripping curve characteristic	B, C, D
Mechanical Features	Electrical life	4000 cycles
	Mechanical life	10000 cycles
	Contact position indicator	Yes
	Protection degree	IP20
	Reference temperature for setting of thermal elements	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
	Terminal size top/bottom for cable	50mm ²
	Terminal size top/bottom for busbar	50mm ²
	Tightening torque	3.5Nm
	Mounting	DIN rail EN 60715 (35mm)
	Connection	Power supply in both directions

Characteristics

Curves



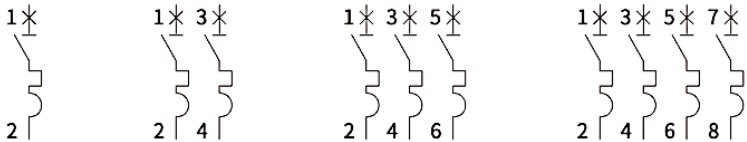
As per IEC60898	Thermal Tripping			Magnetic Tripping		
	No tripping current	Tripping current I_2	Time Limits t	Hold current I_4	Trip current I_5	Time Limits t
B Curve	$1.13 \times I_N$	$1.45 \times I_N$	$\geq 2h$ $< 1h$	$3 \times I_N$	$5 \times I_N$	$\geq 0.1s$ $< 0.1s$
C Curve	$1.13 \times I_N$	$1.45 \times I_N$	$\geq 2h$ $< 1h$	$5 \times I_N$	$10 \times I_N$	$\geq 0.1s$ $< 0.1s$
D Curve	$1.13 \times I_N$	$1.45 \times I_N$	$\geq 2h$ $< 1h$	$10 \times I_N$	$20 \times I_N$	$\geq 0.1s$ $< 0.1s$

Tripping characteristics

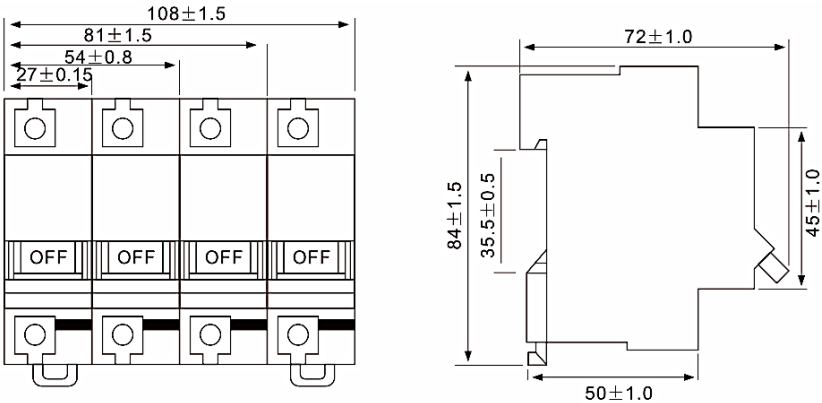
Based on the Tripping Characteristics, MCB are available in “B”, “C”, and “D” curve to suit different types of applications.

- “B” Curve for protection of electrical circuits with equipment that does not cause surge current (lighting and distribution circuits). Short circuit release is set to $(3-5) \times I_N$.
- “C” Curve for protection of electrical circuits with equipment that cause surge current (inductive loads and motor circuits). Short circuit release is set to $(5-10) \times I_N$.
- “D” Curve for protection of electrical circuits with cause high inrush current ,typically 12 - 15 times the thermal rated current (transformers, x-ray machines etc.). Short circuit release is set to $(10-20) \times I_N$.

Circuit Diagram



Overall and Installation Dimension (mm)



	Product	Product code	Ordering product code
Ordering information	1P 63A, tripping curve B	EKM12-125X B63	EKM12-125X 63A
	1P 63A, tripping curve C	EKM12-125X C63	EKM12-125X 63A
	1P 63A, tripping curve D	EKM12-125X D63	EKM12-125X 63A
	1P 80A, tripping curve B	EKM12-125X B80	EKM12-125X 80A
	1P 80A, tripping curve C	EKM12-125X C80	EKM12-125X 80A
	1P 80A, tripping curve D	EKM12-125X D80	EKM12-125X 80A
	1P 100A, tripping curve B	EKM12-125X B100	EKM12-125X 100A
	1P 100A, tripping curve C	EKM12-125X C100	EKM12-125X 100A
	1P 100A, tripping curve D	EKM12-125X D100	EKM12-125X 100A
	1P 125A, tripping curve B	EKM12-125X B125	EKM12-125X 125A
	1P 125A, tripping curve C	EKM12-125X C125	EKM12-125X 125A
	1P 125A, tripping curve D	EKM12-125X D125	EKM12-125X 125A
	1P+N 63A, tripping curve B	EKM12-125X B63	EKM12-125X 63A
	1P+N 63A, tripping curve C	EKM12-125X C63	EKM12-125X 63A
	1P+N 63A, tripping curve D	EKM12-125X D63	EKM12-125X 63A
	1P+N 80A, tripping curve B	EKM12-125X B80	EKM12-125X 80A
	1P+N 80A, tripping curve C	EKM12-125X C80	EKM12-125X 80A
	1P+N 80A, tripping curve D	EKM12-125X D80	EKM12-125X 80A
	1P+N 100A, tripping curve B	EKM12-125X B100	EKM12-125X 100A
	1P+N 100A, tripping curve C	EKM12-125X C100	EKM12-125X 100A
	1P+N 100A, tripping curve D	EKM12-125X D100	EKM12-125X 100A
	1P+N 125A, tripping curve B	EKM12-125X B125	EKM12-125X 125A
	1P+N 125A, tripping curve C	EKM12-125X C125	EKM12-125X 125A
	1P+N 125A, tripping curve D	EKM12-125X D125	EKM12-125X 125A
	2P 63A, tripping curve B	EKM12-125X B63	EKM12-125X 63A
	2P 63A, tripping curve C	EKM12-125X C63	EKM12-125X 63A
	2P 63A, tripping curve D	EKM12-125X D63	EKM12-125X 63A
	2P 80A, tripping curve B	EKM12-125X B80	EKM12-125X 80A
	2P 80A, tripping curve C	EKM12-125X C80	EKM12-125X 80A
	2P 80A, tripping curve D	EKM12-125X D80	EKM12-125X 80A
	2P 100A, tripping curve B	EKM12-125X B100	EKM12-125X 100A
	2P 100A, tripping curve C	EKM12-125X C100	EKM12-125X 100A
	2P 100A, tripping curve D	EKM12-125X D100	EKM12-125X 100A
	2P 125A, tripping curve B	EKM12-125X B125	EKM12-125X 125A
	2P 125A, tripping curve C	EKM12-125X C125	EKM12-125X 125A
	2P 125A, tripping curve D	EKM12-125X D125	EKM12-125X 125A
	3P 63A, tripping curve B	EKM12-125X B63	EKM12-125X 63A
	3P 63A, tripping curve C	EKM12-125X C63	EKM12-125X 63A
	3P 63A, tripping curve D	EKM12-125X D63	EKM12-125X 63A
	3P 80A, tripping curve B	EKM12-125X B80	EKM12-125X 80A
	3P 80A, tripping curve C	EKM12-125X C80	EKM12-125X 80A
	3P 80A, tripping curve D	EKM12-125X D80	EKM12-125X 80A
	3P 100A, tripping curve B	EKM12-125X B100	EKM12-125X 100A
	3P 100A, tripping curve C	EKM12-125X C100	EKM12-125X 100A
	3P 100A, tripping curve D	EKM12-125X D100	EKM12-125X 100A
	3P 125A, tripping curve B	EKM12-125X B125	EKM12-125X 125A
	3P 125A, tripping curve C	EKM12-125X C125	EKM12-125X 125A
	3P 125A, tripping curve D	EKM12-125X D125	EKM12-125X 125A
	3P+N 63A, tripping curve B	EKM12-125X B63	EKM12-125X 63A
	3P+N 63A, tripping curve C	EKM12-125X C63	EKM12-125X 63A
	3P+N 63A, tripping curve D	EKM12-125X D63	EKM12-125X 63A
	3P+N 80A, tripping curve B	EKM12-125X B80	EKM12-125X 80A
	3P+N 80A, tripping curve C	EKM12-125X C80	EKM12-125X 80A
	3P+N 80A, tripping curve D	EKM12-125X D80	EKM12-125X 80A

Product	Product code	Ordering product code
3P+N 100A, tripping curve B	EKM12-125X B100	EKM12-125X 100A
3P+N 100A, tripping curve C	EKM12-125X C100	EKM12-125X 100A
3P+N 100A, tripping curve D	EKM12-125X D100	EKM12-125X 100A
3P+N 125A, tripping curve B	EKM12-125X B125	EKM12-125X 125A
3P+N 125A, tripping curve C	EKM12-125X C125	EKM12-125X 125A
3P+N 125A, tripping curve D	EKM12-125X D125	EKM12-125X 125A
4P 63A, tripping curve B	EKM12-125X B63	EKM12-125X 63A
4P 63A, tripping curve C	EKM12-125X C63	EKM12-125X 63A
4P 63A, tripping curve D	EKM12-125X D63	EKM12-125X 63A
4P 80A, tripping curve B	EKM12-125X B80	EKM12-125X 80A
4P 80A, tripping curve C	EKM12-125X C80	EKM12-125X 80A
4P 80A, tripping curve D	EKM12-125X D80	EKM12-125X 80A
4P 100A, tripping curve B	EKM12-125X B100	EKM12-125X 100A
4P 100A, tripping curve C	EKM12-125X C100	EKM12-125X 100A
4P 100A, tripping curve D	EKM12-125X D100	EKM12-125X 100A
4P 125A, tripping curve B	EKM12-125X B125	EKM12-125X 125A
4P 125A, tripping curve C	EKM12-125X C125	EKM12-125X 125A
4P 125A, tripping curve D	EKM12-125X D125	EKM12-125X 125A

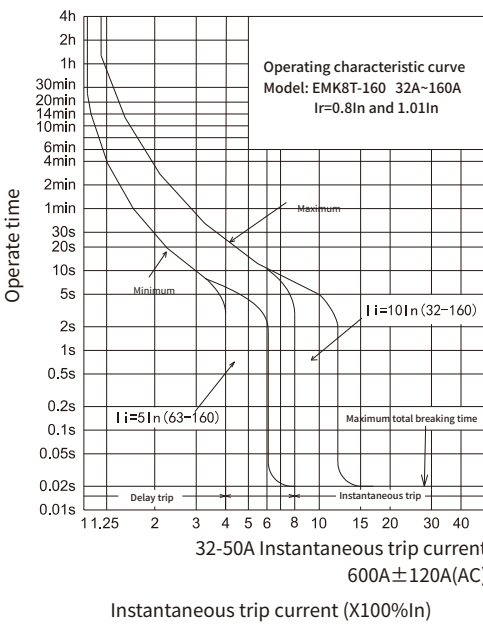


Technical Data

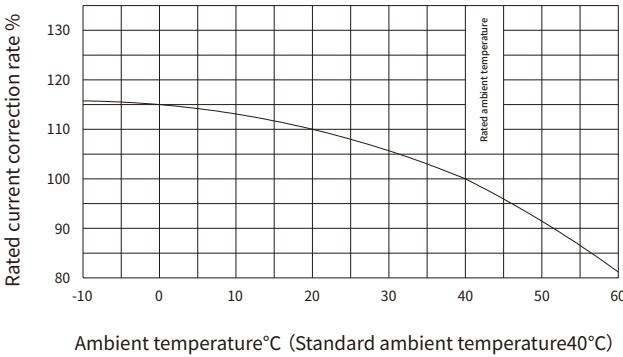
Electrical Features	Utilization Category	A		
	Rated current I_n (at 40°C)	32,40,50,60,63,75,80,100,125,150,160		
	Poles	2P,3P,4P		
	Rated operational voltage U_e	230/400 V		
	Insulation voltage U_i	1000 V		
	Rated frequency	50/60 Hz		
	Ultimate short circuit breaking capacity I_{cu}	36000 A		
	Service short circuit breaking capacity I_{cs}	36000 A		
	Current setting adjustable	$(0.7 - 1) \times I_n$		
	Rated impulse withstand voltage U_{imp}	8000 V		
	Dielectric test voltage at ind. frequency for 5 min	2,2 kV		
	Pollution degree	3		
	Tripping characteristic	Thermal-Magnetic Adjustable		
Mechanical Features	Electrical life	1500 cycles (up to 2500 cycles)		
	Mechanical life	8500 cycles (up to 10000 cycles)		
	Contact position indicator	Yes		
	Protection degree	IP20		
	Reference temperature for setting of thermal elements	30°C		
	Ambient temperature (with daily average $\leq 35^\circ\text{C}$)	$-5^\circ\text{C} \sim +50^\circ\text{C}$		
	Humidity	Up to 98%RH		
	Storage temperature	$-25^\circ\text{C} \sim +70^\circ\text{C}$		
Dimension & Weight		2-Pole	3-Pole	4-Pole
	Width (mm)	60	90	120
	Length (mm)	155	155	155
	Depth excluding handle (mm)	88	88	88
	Depth including handle (mm)	115	115	115
	Weight (kg)	0,5	1,1	1,7

	Product	China market	International market
Ordering information	2P 32A, Icu = Ics = 36 kA	EKM8T-160H 2P 32A	EKM8T-160H 32A
	2P 40A, Icu = Ics = 36 kA	EKM8T-160H 2P 40A	EKM8T-160H 40A
	2P 50A, Icu = Ics = 36 kA	EKM8T-160H 2P 50A	EKM8T-160H 50A
	2P 60A, Icu = Ics = 36 kA	EKM8T-160H 2P 60A	EKM8T-160H 60A
	2P 63A, Icu = Ics = 36 kA	EKM8T-160H 2P 63A	EKM8T-160H 63A
	2P 75A, Icu = Ics = 36 kA	EKM8T-160H 2P 75A	EKM8T-160H 75A
	2P 80A, Icu = Ics = 36 kA	EKM8T-160H 2P 80A	EKM8T-160H 80A
	2P 100A, Icu = Ics = 36 kA	EKM8T-160H 2P 100A	EKM8T-160H 100A
	2P 125A, Icu = Ics = 36 kA	EKM8T-160H 2P 125A	EKM8T-160H 125A
	2P 150A, Icu = Ics = 36 kA	EKM8T-160H 2P 150A	EKM8T-160H 150A
	2P 160A, Icu = Ics = 36 kA	EKM8T-160H 2P 160A	EKM8T-160H 160A
	3P 32A, Icu = Ics = 36 kA	EKM8T-160H 3P 32A	EKM8T-160H 32A
	3P 40A, Icu = Ics = 36 kA	EKM8T-160H 3P 40A	EKM8T-160H 40A
	3P 50A, Icu = Ics = 36 kA	EKM8T-160H 3P 50A	EKM8T-160H 50A
	3P 60A, Icu = Ics = 36 kA	EKM8T-160H 3P 60A	EKM8T-160H 60A
	3P 63A, Icu = Ics = 36 kA	EKM8T-160H 3P 63A	EKM8T-160H 63A
	3P 75A, Icu = Ics = 36 kA	EKM8T-160H 3P 75A	EKM8T-160H 75A
	3P 80A, Icu = Ics = 36 kA	EKM8T-160H 3P 80A	EKM8T-160H 80A
	3P 100A, Icu = Ics = 36 kA	EKM8T-160H 3P 100A	EKM8T-160H 100A
	3P 125A, Icu = Ics = 36 kA	EKM8T-160H 3P 125A	EKM8T-160H 125A
	3P 150A, Icu = Ics = 36 kA	EKM8T-160H 3P 150A	EKM8T-160H 150A
	3P 160A, Icu = Ics = 36 kA	EKM8T-160H 3P 160A	EKM8T-160H 160A
	4P 32A, Icu = Ics = 36 kA	EKM8T-160H 4P 32A	EKM8T-160H 32A
	4P 40A, Icu = Ics = 36 kA	EKM8T-160H 4P 40A	EKM8T-160H 40A
	4P 50A, Icu = Ics = 36 kA	EKM8T-160H 4P 50A	EKM8T-160H 50A
	4P 60A, Icu = Ics = 36 kA	EKM8T-160H 4P 60A	EKM8T-160H 60A
	4P 63A, Icu = Ics = 36 kA	EKM8T-160H 4P 63A	EKM8T-160H 63A
	4P 75A, Icu = Ics = 36 kA	EKM8T-160H 4P 75A	EKM8T-160H 75A
	4P 80A, Icu = Ics = 36 kA	EKM8T-160H 4P 80A	EKM8T-160H 80A
	4P 100A, Icu = Ics = 36 kA	EKM8T-160H 4P 100A	EKM8T-160H 100A
	4P 125A, Icu = Ics = 36 kA	EKM8T-160H 4P 125A	EKM8T-160H 125A
	4P 150A, Icu = Ics = 36 kA	EKM8T-160H 4P 150A	EKM8T-160H 150A
	4P 160A, Icu = Ics = 36 kA	EKM8T-160H 4P 160A	EKM8T-160H 160A

Operating characteristic



Adjustment curve of temperature





Technical Data

Electrical Features	Utilization Category	A
	Rated current I_n (at 40°C)	100,125,150,160,200,225,250A
	Poles	2P,3P,4P
	Rated operational voltage U_e	230/400 V
	Insulation voltage U_i	1000 V
	Rated frequency	50/60 Hz
	Ultimate short circuit breaking capacity I_{cu}	36000 A
	Service short circuit breaking capacity I_{cs}	36000 A
	Current setting adjustable	$(0.7 - 1) \times I_n$
	Rated impulse withstand voltage U_{imp}	8000 V
	Dielectric test voltage at ind. frequency for 5 min	2,2 kV
	Pollution degree	3
Tripping characteristic		Thermal-Magnetic Adjustable

Mechanical Features

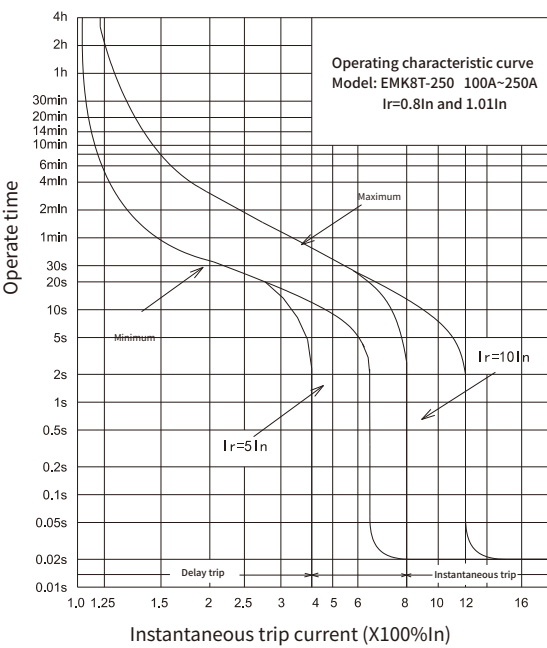
Electrical life	1000 cycles (up to 1500 cycles)
Mechanical life	7000 cycles (up to 8500 cycles)
Contact position indicator	Yes
Protection degree	IP20
Reference temperature for setting of thermal elements	30°C
Ambient temperature (with daily average $\leq 35^\circ\text{C}$)	$-5^\circ\text{C} \sim +50^\circ\text{C}$
Humidity	Up to 98%RH
Storage temperature	$-25^\circ\text{C} \sim +70^\circ\text{C}$

Dimension & Weight

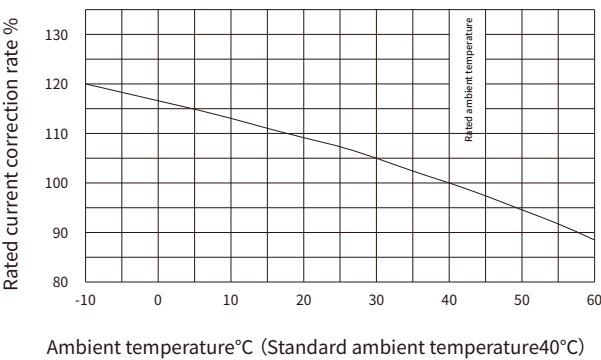
	2-Pole	3-Pole	4-Pole
Width (mm)	70	105	140
Length (mm)	165	165	165
Depth excluding handle (mm)	88	88	88
Depth including handle (mm)	115	115	115
Weight (kg)	1.3	1.7	2.1

	Product	China market	International market
Ordering information	2P 100A, Icu = Ics = 36 kA	EKM8T-250H 2P 100A	EKM8T-250H 100A
	2P 125A, Icu = Ics = 36 kA	EKM8T-250H 2P 125A	EKM8T-250H 125A
	2P 150A, Icu = Ics = 36 kA	EKM8T-250H 2P 150A	EKM8T-250H 150A
	2P 160A, Icu = Ics = 36 kA	EKM8T-250H 2P 160A	EKM8T-250H 160A
	2P 200A, Icu = Ics = 36 kA	EKM8T-250H 2P 200A	EKM8T-250H 200A
	2P 225A, Icu = Ics = 36 kA	EKM8T-250H 2P 225A	EKM8T-250H 225A
	2P 250A, Icu = Ics = 36 kA	EKM8T-250H 2P 250A	EKM8T-250H 250A
	3P 100A, Icu = Ics = 36 kA	EKM8T-250H 3P 100A	EKM8T-250H 100A
	3P 125A, Icu = Ics = 36 kA	EKM8T-250H 3P 125A	EKM8T-250H 125A
	3P 150A, Icu = Ics = 36 kA	EKM8T-250H 3P 150A	EKM8T-250H 150A
	3P 160A, Icu = Ics = 36 kA	EKM8T-250H 3P 160A	EKM8T-250H 160A
	3P 200A, Icu = Ics = 36 kA	EKM8T-250H 3P 200A	EKM8T-250H 200A
	3P 225A, Icu = Ics = 36 kA	EKM8T-250H 3P 225A	EKM8T-250H 225A
	3P 250A, Icu = Ics = 36 kA	EKM8T-250H 3P 250A	EKM8T-250H 250A
	4P 100A, Icu = Ics = 36 kA	EKM8T-250H 4P 100A	EKM8T-250H 100A
	4P 125A, Icu = Ics = 36 kA	EKM8T-250H 4P 125A	EKM8T-250H 125A
	4P 150A, Icu = Ics = 36 kA	EKM8T-250H 4P 150A	EKM8T-250H 150A
	4P 160A, Icu = Ics = 36 kA	EKM8T-250H 4P 160A	EKM8T-250H 160A
	4P 200A, Icu = Ics = 36 kA	EKM8T-250H 4P 200A	EKM8T-250H 200A
	4P 225A, Icu = Ics = 36 kA	EKM8T-250H 4P 225A	EKM8T-250H 225A
	4P 250A, Icu = Ics = 36 kA	EKM8T-250H 4P 250A	EKM8T-250H 250A

Operating characteristic



Adjustment curve of temperature





Technical Data

Electrical Features	Utilization Category	A
	Rated current I_n (at 40°C)	200,225,250,300,315,320,350,400A
	Poles	2P,3P,4P
	Rated operational voltage U_e	230/400 V
	Insulation voltage U_i	1000 V
	Rated frequency	50/60 Hz
	Ultimate short circuit breaking capacity I_{cu}	50000 A
	Service short circuit breaking capacity I_{cs}	50000 A
	Current setting adjustable	$(0.7 - 1) \times I_n$
	Rated impulse withstand voltage U_{imp}	8000 V
	Dielectric test voltage at ind. frequency for 5 min	2,2 kV
	Pollution degree	3
Tripping characteristic		Thermal-Magnetic Adjustable

Mechanical Features

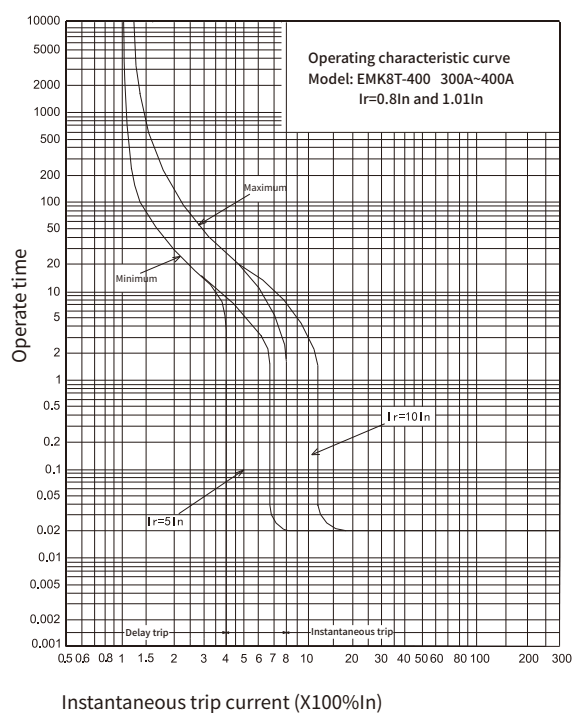
Electrical life	1000 cycles (up to 1500 cycles)
Mechanical life	7000 cycles (up to 8500 cycles)
Contact position indicator	Yes
Protection degree	IP20
Reference temperature for setting of thermal elements	30°C
Ambient temperature (with daily average $\leq 35^\circ\text{C}$)	$-5^\circ\text{C} \sim +50^\circ\text{C}$
Humidity	Up to 98%RH
Storage temperature	$-25^\circ\text{C} \sim +70^\circ\text{C}$

Dimension & Weight

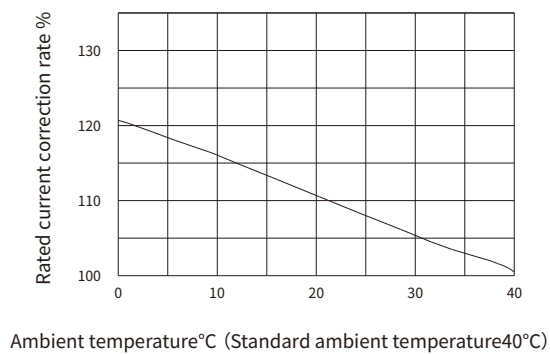
	2-Pole	3-Pole	4-Pole
Width (mm)	95	140	185
Length (mm)	257	257	257
Depth excluding handle (mm)	103	103	103
Depth including handle (mm)	155	155	155
Weight (kg)	4.0	5.5	7.0

	Product	China market	International market
Ordering information	2P 200A, Icu = Ics = 50 kA	EKM8T-400H 2P 200A	EKM8T-400H 200A
	2P 225A, Icu = Ics = 50 kA	EKM8T-400H 2P 225A	EKM8T-400H 225A
	2P 250A, Icu = Ics = 50 kA	EKM8T-400H 2P 250A	EKM8T-400H 250A
	2P 300A, Icu = Ics = 50 kA	EKM8T-400H 2P 300A	EKM8T-400H 300A
	2P 315A, Icu = Ics = 50 kA	EKM8T-400H 2P 315A	EKM8T-400H 315A
	2P 320A, Icu = Ics = 50 kA	EKM8T-400H 2P 320A	EKM8T-400H 320A
	2P 350A, Icu = Ics = 50 kA	EKM8T-400H 2P 350A	EKM8T-400H 350A
	2P 400A, Icu = Ics = 50 kA	EKM8T-400H 2P 400A	EKM8T-400H 400A
	3P 200A, Icu = Ics = 50 kA	EKM8T-400H 3P 200A	EKM8T-400H 200A
	3P 225A, Icu = Ics = 50 kA	EKM8T-400H 3P 225A	EKM8T-400H 225A
	3P 250A, Icu = Ics = 50 kA	EKM8T-400H 3P 250A	EKM8T-400H 250A
	3P 300A, Icu = Ics = 50 kA	EKM8T-400H 3P 300A	EKM8T-400H 300A
	3P 315A, Icu = Ics = 50 kA	EKM8T-400H 3P 315A	EKM8T-400H 315A
	3P 320A, Icu = Ics = 50 kA	EKM8T-400H 3P 320A	EKM8T-400H 320A
	3P 350A, Icu = Ics = 50 kA	EKM8T-400H 3P 350A	EKM8T-400H 350A
	3P 400A, Icu = Ics = 50 kA	EKM8T-400H 3P 400A	EKM8T-400H 400A
	4P 200A, Icu = Ics = 50 kA	EKM8T-400H 4P 200A	EKM8T-400H 200A
	4P 225A, Icu = Ics = 50 kA	EKM8T-400H 4P 225A	EKM8T-400H 225A
	4P 250A, Icu = Ics = 50 kA	EKM8T-400H 4P 250A	EKM8T-400H 250A
	4P 300A, Icu = Ics = 50 kA	EKM8T-400H 4P 300A	EKM8T-400H 300A
	4P 315A, Icu = Ics = 50 kA	EKM8T-400H 4P 315A	EKM8T-400H 315A
	4P 320A, Icu = Ics = 50 kA	EKM8T-400H 4P 320A	EKM8T-400H 320A
	4P 350A, Icu = Ics = 50 kA	EKM8T-400H 4P 350A	EKM8T-400H 350A
	4P 400A, Icu = Ics = 50 kA	EKM8T-400H 4P 400A	EKM8T-400H 400A

Operating characteristic



Adjustment curve of temperature





Technical Data

Electrical Features	Utilization Category	A
	Rated current I_n (at 40°C)	200,225,250,300,315,320,350,400A
	Poles	2P,3P,4P
	Rated operational voltage U_e	230/400 V
	Insulation voltage U_i	1000 V
	Rated frequency	50/60 Hz
	Ultimate short circuit breaking capacity I_{cu}	50000 A
	Service short circuit breaking capacity I_{cs}	50000 A
	Current setting adjustable	$(0.4 - 1) \times I_n$
	Rated impulse withstand voltage U_{imp}	8000 V
	Dielectric test voltage at ind. frequency for 5 min	2,2 kV
	Pollution degree	3
Tripping characteristic		Electronic

Mechanical Features

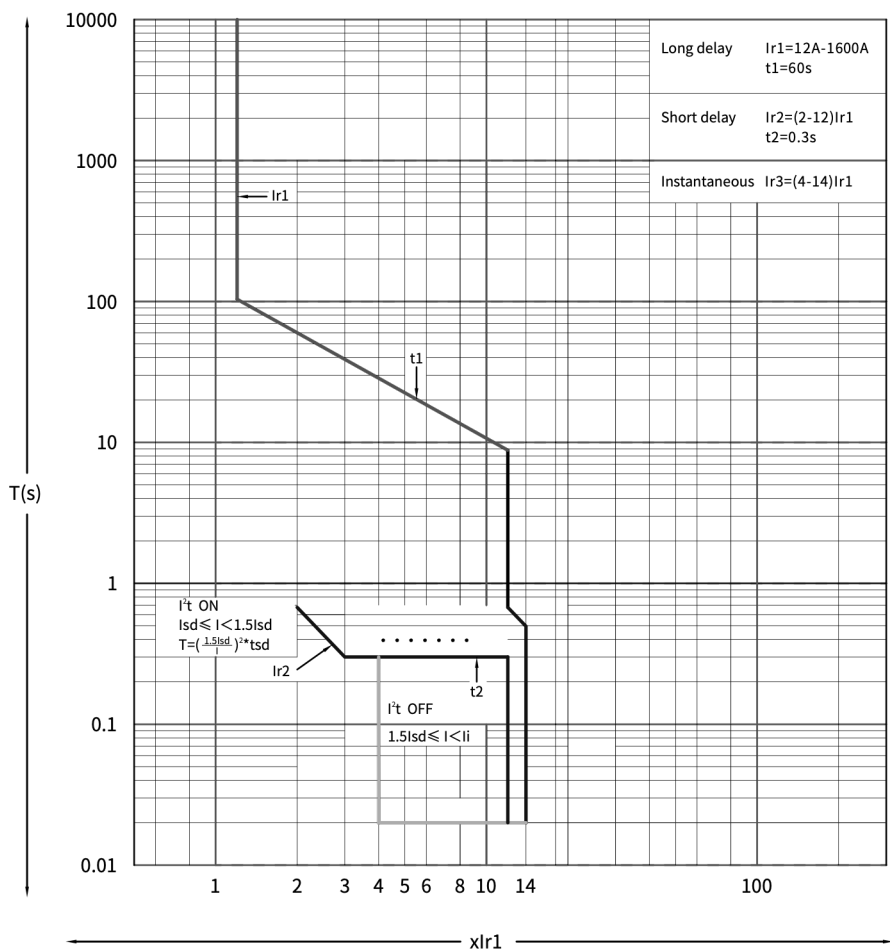
Electrical life	1000 cycles (up to 1500 cycles)
Mechanical life	7000 cycles (up to 8500 cycles)
Contact position indicator	Yes
Protection degree	IP20
Reference temperature for setting of thermal elements	30°C
Ambient temperature (with daily average $\leq 35^\circ\text{C}$)	$-5^\circ\text{C} \sim +50^\circ\text{C}$
Humidity	Up to 98%RH
Storage temperature	$-25^\circ\text{C} \sim +70^\circ\text{C}$

Dimension & Weight

	2-Pole	3-Pole	4-Pole
Width (mm)	95	140	185
Length (mm)	257	257	257
Depth excluding handle (mm)	103	103	103
Depth including handle (mm)	155	155	155
Weight (kg)	4.0	5.5	7.0

	Product	China market	International market
Ordering information	2P 200A, Icu = Ics = 50 kA	EKM8E-400H 2P 200A	EKM8E-400H 200A
	2P 225A, Icu = Ics = 50 kA	EKM8E-400H 2P 225A	EKM8E-400H 225A
	2P 250A, Icu = Ics = 50 kA	EKM8E-400H 2P 250A	EKM8E-400H 250A
	2P 300A, Icu = Ics = 50 kA	EKM8E-400H 2P 300A	EKM8E-400H 300A
	2P 315A, Icu = Ics = 50 kA	EKM8E-400H 2P 315A	EKM8E-400H 315A
	2P 320A, Icu = Ics = 50 kA	EKM8E-400H 2P 320A	EKM8E-400H 320A
	2P 350A, Icu = Ics = 50 kA	EKM8E-400H 2P 350A	EKM8E-400H 350A
	2P 400A, Icu = Ics = 50 kA	EKM8E-400H 2P 400A	EKM8E-400H 400A
	3P 200A, Icu = Ics = 50 kA	EKM8E-400H 3P 200A	EKM8E-400H 200A
	3P 225A, Icu = Ics = 50 kA	EKM8E-400H 3P 225A	EKM8E-400H 225A
	3P 250A, Icu = Ics = 50 kA	EKM8E-400H 3P 250A	EKM8E-400H 250A
	3P 300A, Icu = Ics = 50 kA	EKM8E-400H 3P 300A	EKM8E-400H 300A
	3P 315A, Icu = Ics = 50 kA	EKM8E-400H 3P 315A	EKM8E-400H 315A
	3P 320A, Icu = Ics = 50 kA	EKM8E-400H 3P 320A	EKM8E-400H 320A
	3P 350A, Icu = Ics = 50 kA	EKM8E-400H 3P 350A	EKM8E-400H 350A
	3P 400A, Icu = Ics = 50 kA	EKM8E-400H 3P 400A	EKM8E-400H 400A
	4P 200A, Icu = Ics = 50 kA	EKM8E-400H 4P 200A	EKM8E-400H 200A
	4P 225A, Icu = Ics = 50 kA	EKM8E-400H 4P 225A	EKM8E-400H 225A
	4P 250A, Icu = Ics = 50 kA	EKM8E-400H 4P 250A	EKM8E-400H 250A
	4P 300A, Icu = Ics = 50 kA	EKM8E-400H 4P 300A	EKM8E-400H 300A
	4P 315A, Icu = Ics = 50 kA	EKM8E-400H 4P 315A	EKM8E-400H 315A
	4P 320A, Icu = Ics = 50 kA	EKM8E-400H 4P 320A	EKM8E-400H 320A
	4P 350A, Icu = Ics = 50 kA	EKM8E-400H 4P 350A	EKM8E-400H 350A
	4P 400A, Icu = Ics = 50 kA	EKM8E-400H 4P 400A	EKM8E-400H 400A

Protection characteristic curve





Technical Data

Electrical Features

Utilization Category	A
Rated current I_n (at 40°C)	300,315,350,400,500,600,630A
Poles	3P,4P
Rated operational voltage U_e	230/400 V
Insulation voltage U_i	1000 V
Rated frequency	50/60 Hz
Ultimate short circuit breaking capacity I_{cu}	50000 A
Service short circuit breaking capacity I_{cs}	50000 A
Current setting adjustable	$(0.4 - 1) \times I_n$
Rated impulse withstand voltage U_{imp}	8000 V
Dielectric test voltage at ind. frequency for 5 min	2,2 kV
Pollution degree	3
Tripping characteristic	Electronic

Mechanical Features

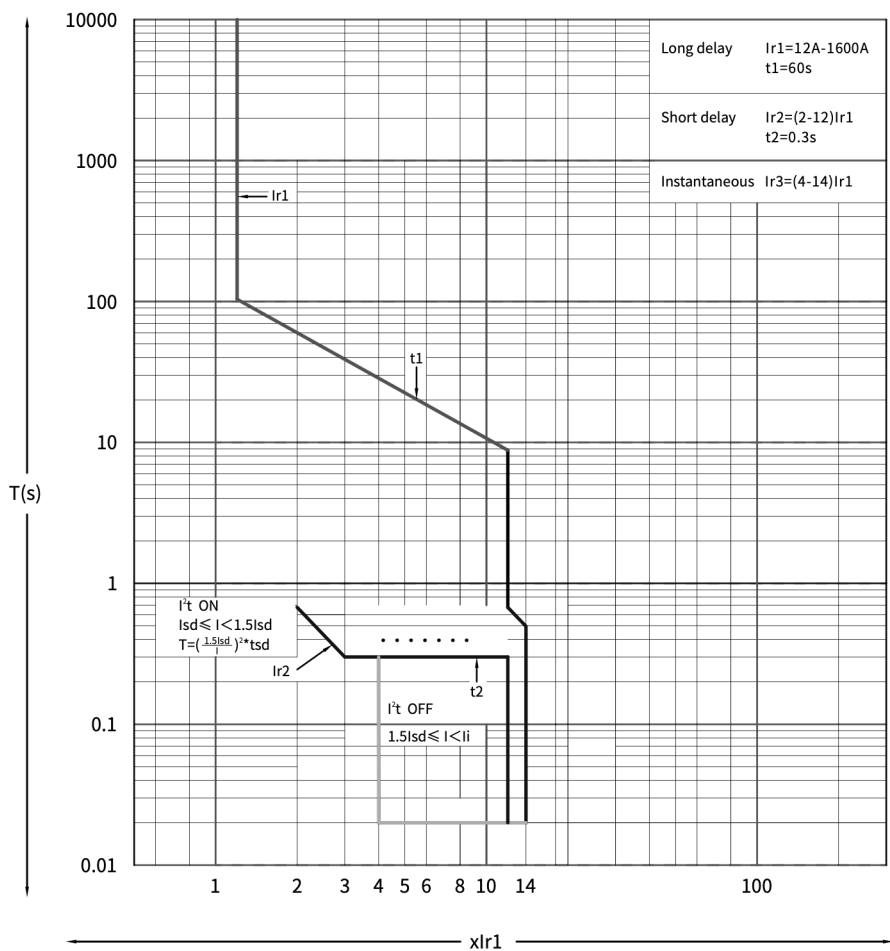
Electrical life	1000 cycles
Mechanical life	4000 cycles (up to 7000 cycles)
Contact position indicator	Yes
Protection degree	IP20
Reference temperature for setting of thermal elements	30°C
Ambient temperature (with daily average $\leq 35^\circ\text{C}$)	$-5^\circ\text{C} \sim +50^\circ\text{C}$
Humidity	Up to 98%RH
Storage temperature	$-25^\circ\text{C} \sim +70^\circ\text{C}$

Dimension & Weight

	3-Pole	4-Pole
Width (mm)	140	185
Length (mm)	257	257
Depth excluding handle (mm)	103	103
Depth including handle (mm)	155	155
Weight (kg)	5.7	7.5

	Product	China market	International market
Ordering information	3P 300A, Icu = Ics = 50 kA	EKM8E-630H 3P 300A	EKM8E-630H 300A
	3P 315A, Icu = Ics = 50 kA	EKM8E-630H 3P 315A	EKM8E-630H 315A
	3P 320A, Icu = Ics = 50 kA	EKM8E-630H 3P 320A	EKM8E-630H 320A
	3P 350A, Icu = Ics = 50 kA	EKM8E-630H 3P 350A	EKM8E-630H 350A
	3P 400A, Icu = Ics = 50 kA	EKM8E-630H 3P 400A	EKM8E-630H 400A
	3P 500A, Icu = Ics = 50 kA	EKM8E-630H 3P 500A	EKM8E-630H 500A
	3P 600A, Icu = Ics = 50 kA	EKM8E-630H 3P 600A	EKM8E-630H 600A
	3P 630A, Icu = Ics = 50 kA	EKM8E-630H 3P 630A	EKM8E-630H 630A
	4P 300A, Icu = Ics = 50 kA	EKM8E-630H 4P 300A	EKM8E-630H 300A
	4P 315A, Icu = Ics = 50 kA	EKM8E-630H 4P 315A	EKM8E-630H 315A
	4P 320A, Icu = Ics = 50 kA	EKM8E-630H 4P 320A	EKM8E-630H 320A
	4P 350A, Icu = Ics = 50 kA	EKM8E-630H 4P 350A	EKM8E-630H 350A
	4P 400A, Icu = Ics = 50 kA	EKM8E-630H 4P 400A	EKM8E-630H 400A
	4P 500A, Icu = Ics = 50 kA	EKM8E-630H 4P 500A	EKM8E-630H 500A
	4P 600A, Icu = Ics = 50 kA	EKM8E-630H 4P 600A	EKM8E-630H 600A
	4P 630A, Icu = Ics = 50 kA	EKM8E-630H 4P 630A	EKM8E-630H 630A

Protection characteristic curve





Technical Data

Electrical Features	Utilization Category	A
	Rated current I_n (at 40°C)	800, 1000, 1200, 1250, 1400, 1500, 1600A
	Poles	3P, 4P
	Rated operational voltage U_e	230/400 V
	Insulation voltage U_i	1000 V
	Rated frequency	50/60 Hz
	Ultimate short circuit breaking capacity I_{cu}	85000 A
	Service short circuit breaking capacity I_{cs}	85000 A
	Current setting adjustable	$(0.4 - 1) \times I_n$
	Rated impulse withstand voltage U_{imp}	8000 V
	Dielectric test voltage at ind. frequency for 5 min	2,2 kV
	Pollution degree	3
	Tripping characteristic	Electronic

Mechanical Features

Electrical life	1000 cycles
Mechanical life	2500 cycles (up to 4000 cycles)
Contact position indicator	Yes
Protection degree	IP20
Reference temperature for setting of thermal elements	30°C
Ambient temperature (with daily average $\leq 35^\circ\text{C}$)	$-5^\circ\text{C} \sim +50^\circ\text{C}$
Humidity	Up to 98%RH
Storage temperature	$-25^\circ\text{C} \sim +70^\circ\text{C}$

Dimension & Weight

	3-Pole	4-Pole
Width (mm)	210	280
Length (mm)	406	406
Depth excluding handle (mm)	138,5	138,5
Depth including handle (mm)	152	152
Weight (kg)	17.2	22.2

	Product	China market	International market
Ordering information	3P 800A, Icu = Ics = 85 kA	EKM8E-1600H 3P 800A	EKM8E-1600H 800A
	3P 1000A, Icu = Ics = 85 kA	EKM8E-1600H 3P 1000A	EKM8E-1600H 1000A
	3P 1200A, Icu = Ics = 85 kA	EKM8E-1600H 3P 1200A	EKM8E-1600H 1200A
	3P 1250A, Icu = Ics = 85 kA	EKM8E-1600H 3P 1250A	EKM8E-1600H 1250A
	3P 1400A, Icu = Ics = 85 kA	EKM8E-1600H 3P 1400A	EKM8E-1600H 1400A
	3P 1500A, Icu = Ics = 85 kA	EKM8E-1600H 3P 1500A	EKM8E-1600H 1500A
	3P 1600A, Icu = Ics = 85 kA	EKM8E-1600H 3P 1600A	EKM8E-1600H 1600A
	4P 800A, Icu = Ics = 85 kA	EKM8E-1600H 4P 800A	EKM8E-1600H 800A
	4P 1000A, Icu = Ics = 85 kA	EKM8E-1600H 4P 1000A	EKM8E-1600H 1000A
	4P 1200A, Icu = Ics = 85 kA	EKM8E-1600H 4P 1200A	EKM8E-1600H 1200A
	4P 1250A, Icu = Ics = 85 kA	EKM8E-1600H 4P 1250A	EKM8E-1600H 1250A
	4P 1400A, Icu = Ics = 85 kA	EKM8E-1600H 4P 1400A	EKM8E-1600H 1400A
	4P 1500A, Icu = Ics = 85 kA	EKM8E-1600H 4P 1500A	EKM8E-1600H 1500A
	4P 1600A, Icu = Ics = 85 kA	EKM8E-1600H 4P 1600A	EKM8E-1600H 1600A

Protection characteristic curve

