

MCB Product Selection Table



Products Overview of Circuit Breakers

	S2						
Model No.	RKM2-63X	RKM2-63	RKM12-63H	RKM2-40N	RKM1-125S	RKM2-125H	RKM1-125DC
Breaking Capacity	4.5kA	6kA	10kA	6kA	6kA	10kA	10kA
Rated currents (In)	1-63A	1-63A	1-63A	6-40A	63-125A	63-125A	80-125A
Protection: Overcurrent and short circuit							
Standard	IEC60898-1	IEC60898-1	IEC60898-1	IEC60898-1	IEC60898-1	IEC60898-1 IEC60947-2	IEC60947-2
Number of poles	1P,2P,3P,4P (1P+N),(3P+N)	1P,2P,3P,4P (1P+N),(3P+N)	1P,2P,3P,4P (1P+N),(3P+N)	1P+N	1P,2P,3P,4P (1P+N),(3P+N)	1P,2P,3P,4P (1P+N),(3P+N)	1P,2P,4P
Rated voltage(V)	240/415V~	240/415V~	240/415V~	230/240V~	240/415V~	240/415V~	1: 250VDC, 2: 500VDC, 4: 1000VDC
Insulation voltage (Ui)	500V	500V	500V	500V	500V	500V	500V
Tripping curve	B,C,D	B,C,D	B,C,D	B,C,D	C,D	8-12In	8-12In
Type	AC	AC	AC	AC	AC	AC	DC
Certificate	CB CE	CB CE UK CA	CB CE UK CA	CB CE UK CA	CB CE	CB CE	CE
Catalogue page No.	39	40	41	42	43	44	45

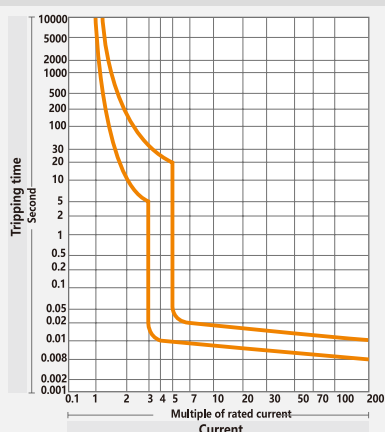
MCB Main Technical Parameters



Tripping Characteristic (IEC60898-1)

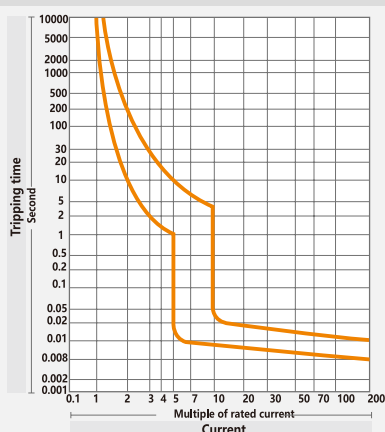
Curve	Rated current	Condition						
		Thermal release				Magnetic release		
		Non-tripping	Tripping	Non-tripping	Tripping time	Holding current	Tripping current	Tripping time
B	1-125A	$1.13 \times I_n$		$\leq 1h$		$3 \times I_n$		≥ 0.1
			$1.45 \times I_n$		$< 1h$		$5 \times I_n$	< 0.1
C	1-125A	$1.13 \times I_n$		$\leq 1h$		$5 \times I_n$		≥ 0.1
			$1.45 \times I_n$		$< 1h$		$10 \times I_n$	< 0.1
D	1-125A	$1.13 \times I_n$		$\leq 1h$		$10 \times I_n$		≥ 0.1
			$1.45 \times I_n$		$< 1h$		$20 \times I_n$	< 0.1

B curve



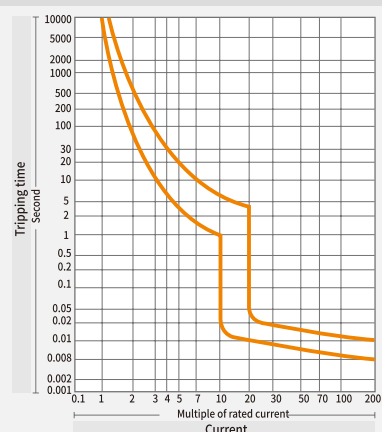
Universal use
- socket outlet, lighting device

C curve



Resistive & inductive loads with
low inrush current
- lamp, high starting current motor

D curve



Loads with high inrush current
- transformer, solenoid valve,
2 pole motor

Temperature Derating Table

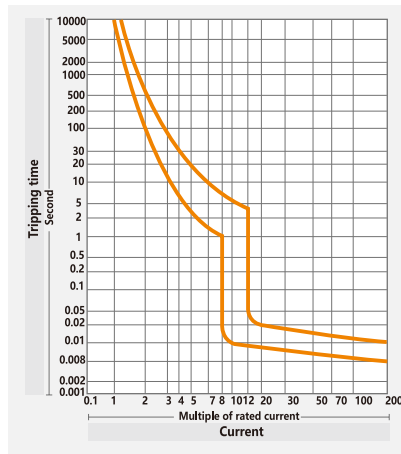
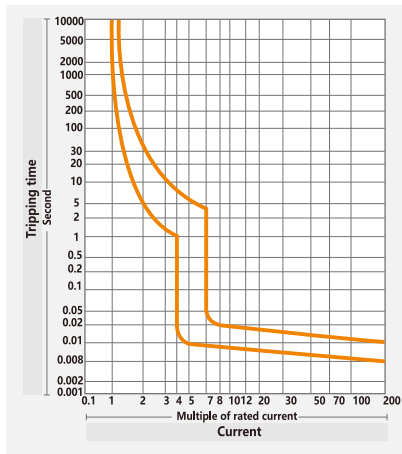
Rated current (A)	Correction factor for ambient temperature											
	-40°C	-30°C	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C
1	1.33	1.29	1.25	1.2	1.15	1.11	1.05	1	0.94	0.88	0.82	0.75
2	2.67	2.58	2.49	2.4	2.31	2.21	2.11	2	1.89	1.76	1.63	1.49
3	4	3.9	3.7	3.6	3.5	3.3	3.2	3	2.8	2.6	2.4	2.2
4	5.3	5.2	5	4.8	4.6	4.4	4.2	4	3.8	3.5	3.3	3
5	6.7	6.5	6.31	6.1	5.8	5.5	5.25	5	4.7	4.3	4	3.7
6	8	7.7	7.5	7.2	6.9	6.6	6.3	6	5.7	5.3	4.9	4.5
10	13.3	12.9	12.5	12	11.5	11.1	10.5	10	9.4	8.8	8.2	7.5
16	21.3	20.7	20	19.2	18.5	17.7	16.9	16	15.1	14.1	13.1	11.9
20	26.7	25.8	24.9	24	23.1	22.1	21.1	20	18.9	17.6	16.3	14.9
25	33.3	32.3	31.2	30	28.9	27.6	26.4	25	23.6	22	20.4	18.6
32	42.7	41.3	39.9	38.5	37	35.4	33.7	32	30.2	28.2	26.1	23.9
40	53.3	51.6	49.9	48.1	46.2	44.2	42.2	40	37.7	35.3	32.7	29.8
50	66.7	64.5	62.4	60.1	57.7	55.3	52.7	50	47.1	44.1	40.8	37.3
63	84	81.3	78.6	75.7	72.7	69.6	66.4	63	59.4	55.6	51.4	47
80	106.4	103.2	100	96	92	88.8	84	80	75.2	70.4	65.6	60
100	133	129	125	120	115	111	105	100	94	88	82	75
125	166.3	161.3	156.3	150	143.8	138.8	131.3	125	117.5	110	102.5	93.8

MCB Main Technical Parameters



Tripping Characteristic (IEC60947-2)

Current(A)		Rated current(A)	Thermal Release				Magnetic release	
			Non-tripping current(A)	Tripping current(A)	Non-tripping time(h)	Tripping time(h)	Holding time(S)	Tripping time(S)
10In±20%	8-12In	1-63	1.05In		≤1		≤0.2	
				1.30In		<1		<0.2
		80-125	1.05In		≤2		≤0.2	
				1.30In		<2		<0.2



Temperature Derating Table

Rated current (A)	Correction factor for ambient temperature											
	-40°C	-30°C	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C
1	1.33	1.29	1.25	1.2	1.15	1.11	1.05	1	0.94	0.88	0.82	0.75
2	2.67	2.58	2.49	2.4	2.31	2.21	2.11	2	1.89	1.76	1.63	1.49
3	4	3.9	3.7	3.6	3.5	3.3	3.2	3	2.8	2.6	2.4	2.2
4	5.3	5.2	5	4.8	4.6	4.4	4.2	4	3.8	3.5	3.3	3
5	6.7	6.5	6.31	6.1	5.8	5.5	5.25	5	4.7	4.3	4	3.7
6	8	7.7	7.5	7.2	6.9	6.6	6.3	6	5.7	5.3	4.9	4.5
10	13.3	12.9	12.5	12	11.5	11.1	10.5	10	9.4	8.8	8.2	7.5
16	21.3	20.7	20	19.2	18.5	17.7	16.9	16	15.1	14.1	13.1	11.9
20	26.7	25.8	24.9	24	23.1	22.1	21.1	20	18.9	17.6	16.3	14.9
25	33.3	32.3	31.2	30	28.9	27.6	26.4	25	23.6	22	20.4	18.6
32	42.7	41.3	39.9	38.5	37	35.4	33.7	32	30.2	28.2	26.1	23.9
40	53.3	51.6	49.9	48.1	46.2	44.2	42.2	40	37.7	35.3	32.7	29.8
50	66.7	64.5	62.4	60.1	57.7	55.3	52.7	50	47.1	44.1	40.8	37.3
63	84	81.3	78.6	75.7	72.7	69.6	66.4	63	59.4	55.6	51.4	47
80	106.4	103.2	100	96	92	88.8	84	80	75.2	70.4	65.6	60
100	133	129	125	120	115	111	105	100	94	88	82	75
125	166.3	161.3	156.3	150	143.8	138.8	131.3	125	117.5	110	102.5	93.8

Circuit Diagram

- RKM1-63S
- RKM1-63
- RKM1-63H
- RKM1-125H
- RKM1-63X
- RKM2-125H
- RKM3-63S
- RKM3-63
- RKM3-63H

