



RIKEN ELECTRIC
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RKM1-100L RKM1-250L RKM1-400L RKM1-630L

MOULDED CASE CIRCUIT BREAKER

- The moulded case circuit breaker will provide protection for the circuit and equipment in case of overload, short circuit and under voltage condition occurred in the power distribution circuit. Besides, it can also provide protection of overload, short circuit and under voltage for the non-frequent start of motor.
- It is in conformity with IEC 60947-2 standard.

Main Parameter	100L	250L	400L	630L			
Rated Operational Voltage	380/400/415V						
Poles	Р	3P					
Rated Current	А	16, 20, 25, 32, 40, 50, 63, 80, 100	100, 125, 160, 180, 200, 225, 250	225, 250, 315, 350, 400	400, 450, 500, 630		
Rated Frequency	50/60						
rated insulation voltage Ui	V	630V					
rated impulse withstand voltage Uimp	kV	8kV					
rated ultimate short-circuit breaking capacity Icu	kA	35kA	35kA	50kA	50kA		
rated service short-circuit breaking capacity Ics	kA	22kA	22kA	35kA	35kA		
Degree of Protection	IP	IP40 for front cover					
Electrical Endurance Cycle	Times	500					
Mechanical Endurance Cycle	Times	2500					
Pollution degree	/	3					
Utilization category	/	A					
Operating Temperature	°C	-5 +40					

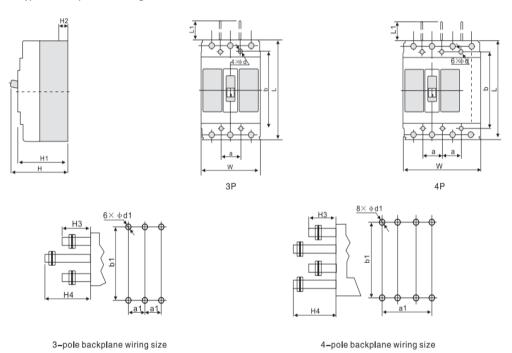
PRIDUCT CODE EXAMPLE

BASE NO.	POLES	AMPERAGE	CURVE
RKM1-100L	3P	80A	/
RKM1-250L	3P	200	/
RKM1-400L	3P	315	/
RKM1-630L	3P	630	/
EXAMPLE	RKM1-10 RKM1-25 RKM1-40	50L-200	
	RKM1-63		

MOULDED CASE CIRCUIT BREAKER

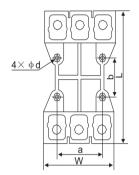
DIMENSIONS AND MOUNTING

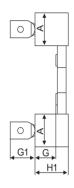
Fix type - Front plane's wiring and installation dimensions

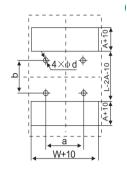


Model	Pole	Dimensions mm				Installation size			Backplane wiring size						
		L	L1	w	Н	Н1	Н2	a	b	Φd	a1	b1	d1	НЗ	Н4
RKM1-100L	3	150	51	92	87	68	24	30	129	4.5	30	132	22	65	100
RKM1-250L	3	164	64	107	124.5	86	38	35	126	5.5	35	144	24	70	110
RKM1-400L	3	257	105	150	153	106	43	44	194	7	48	224	32	48.5	108.5
RKM1-630L	3	270	105	182	157	111	42	58	200	7	58	234	40	70	120

Plug-in type - Back plane's wiring and installation dimensions







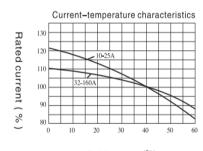
Mounting hole opening size

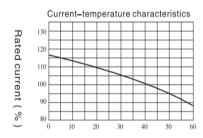
Unit (mm)

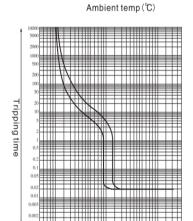
Model	w	L	Α	H1	G	G1	a	b	d
RKM1-100L	92	170	38	50	33	28	60	56	6.5
RKM1-250L	107	186	46	50	33	40	70	56	6.5
RKM1-400L	152	280	58	60	40	46.5	60	130	8.5
RKM1-630L	182	300	65	60	40	53	100	123	8.5

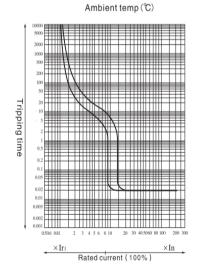
MOULDED CASE CIRCUIT BREAKER

TRIPPING CURVE





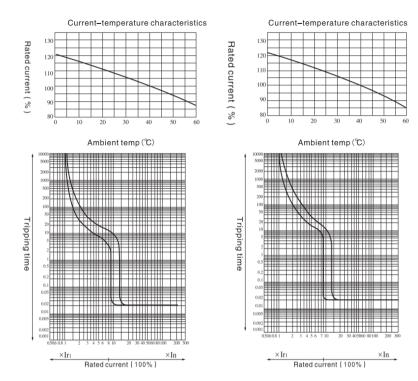




RKM1-100L | Time / current characteristic curve

Rated current (100%)

RKM1-250L Time / current characteristic curve



RKM1-400LTime / current characteristic curve

RKM1-630L Time / current characteristic curve

PROTECTION CHARACTERISTICS

Tripping performance for power distribution

Rated operating		ll release nperature 40℃)	Operating current	Remark	
current (A)	1.03 In(cold state) not tripping (h)	1.3In(thermal state) not tripping (h)	of electromagnetic release (A)		
10 <in≤63< th=""><td>≥ 1</td><td>< 1</td><td>10In ± 20%</td><td colspan="2">Distribution</td></in≤63<>	≥ 1	< 1	10In ± 20%	Distribution	
63 <in≤100< th=""><td>≥ 2</td><td>< 2</td><td>10In ± 20%</td><td>protection type:</td></in≤100<>	≥ 2	< 2	10In ± 20%	protection type:	
100 <in≤1600< th=""><th>≥ 2</th><th>< 2</th><th>5In ± 20% 7In ± 20% 10In ± 20%</th><th>1600A is 7In ±</th></in≤1600<>	≥ 2	< 2	5In ± 20% 7In ± 20% 10In ± 20%	1600A is 7In ±	

Tripping performance for motor protection

operating 1.0ln(cold state)	The	Operating			
	1.2In(thermal sta	1.5In(thermal sta	7.2In(cold state)	current of	
	not tripping (h)	te) tripping (h)	te) tripping (h)	not tripping (h)	electromagnetic
current (A) not tripping (ii)		te) tripping (ii)	te) tripping (ii)	not tripping (ii)	release (A)
10≤In≤630	≥ 2	≤ 2	8min	6S <tp≤20s< td=""><td>12In±20%</td></tp≤20s<>	12In±20%