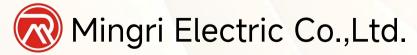


Mingri Electric Low Voltage

Selection Guide





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SJKM1



*Product Description

The SJKM1 series **Molded Case Circuit Breaker** (hereinafter referred to as circuit breakers) are mainly used in power distribution networks with AC 50Hz or (60Hz), rated insulation voltage of 800V, rated working voltage of 690V and below, and rated current of 1250A and below. They are used for distributing electric energy and protecting lines and power supply equipment against overload, undervoltage and short circuit. Circuit breakers with a frame size of 400A and below can also be used for protecting motors against overload, undervoltage and short circuit. Under normal circumstances, they can be used for infrequent conversion of lines and infrequent starting of motors.

Compliant with standards: IEC60947-2 and GB14048.2.

Type Designation

SJKM1-123 4567

SJK:Manufacturer Code M:Molded Case Circuit Breaker (MCCB) Code 1:Design Number / Series

- 1) Frame Size / Rating
- 2Short-Circuit Breaking Capacity Rating4
- 3 Operating mode3
- 4 Number of poles2
- **5**Tripping Method & Accessory Code
- 6 Application code 1
- Type code (see Page N for the code of the number of poles; three-pole without code)

Notes:

- 1. There is no code for distribution circuit breakers; for motor protection circuit breakers, use 2 to represent.
 - 2. Number of poles: 2 for two pole; 3 for three pole; 4 for four pole.
- 3.For handle direct operation: use D to represent for power distribution use, and use Z to represent for conversion locking use.
- 4.For economy type: represent with E; for standard type: represent with M; for higher reliability type: represent with H; for high breaking type: represent with L.



♦N - pole type code

Type Code	Description
Type A	No over - current release element is installed on the N - pole, and the N - pole is always connected, and does not close and open together with the other three poles.
Type B	No over - current release element is installed on the N - pole, and the N - pole closes and opens together with the other three poles (the N - pole closes first and opens later).
Type C	An over - current release element is installed on the N - pole, and the N - pole closes and opens together with the other three poles (the N - pole closes first and opens later).
Type D	An over - current release element is installed on the N - pole, and the N - pole is always connected, and does not close and open together with the other three poles.

◆ Release Modes and Accessory Codes

Accesso	ory Name	Without Accessory	Alarm Contact	Shunt Releas e	Auxiliary Contact	Under - voltage Release	Shunt Release Auxiliary Contact	Two - group Auxiliary Contacts	Shunt Release Under - voltage Release	Auxiliary Contact Under - voltage Release
Release Mode	Instanta neous Code	200	208	210	220	230	240	250	260	270
Release Mode	Compound Code	300	208	310	320	330	340	350	360	370

(Continued from the previous table)

Acce: Na		Shunt Release Alarm Contact	Auxiliary Contact Alarm Contact	Under - voltage Release Alarm Contact	Shunt Release Auxiliary Contact Alarm Contact	Two - group Auxiliary Contact Alarm Contact	Auxiliary Contact Under - voltage Release Alarm Contact
Relea se Mode	Instan taneo us Code	218	228	238	248	268	278
Relea se Mode	Comp ound Code	318	328	338	348	268	378

Notes:

- 1) 200 indicates the circuit breaker body with only an electromagnetic release; 300 indicates the circuit breaker body with thermal and electromagnetic releases.
- 2) For the two level products SJKM1 125 and SJKM1 250, only 210, 310, 220, 320, 230, and 330 are available.



*Normal Operating Conditions and Installation Conditions

- ◆ Ambient temperature: The circuit breaker can operate normally at an ambient temperature range of -5°C to +40°C (except for special orders).
- ◆ Altitude: The altitude of the installation site of the circuit breaker shall not exceed 2000m.
- ◆ Pollution degree: The pollution degree of the circuit breaker is Grade 3.
- ◆ Installation category: The installation category of the circuit breaker is Category III.
- ◆ Installation position: The circuit breaker can be installed horizontally, vertically, or flat, without reducing its electrical performance.

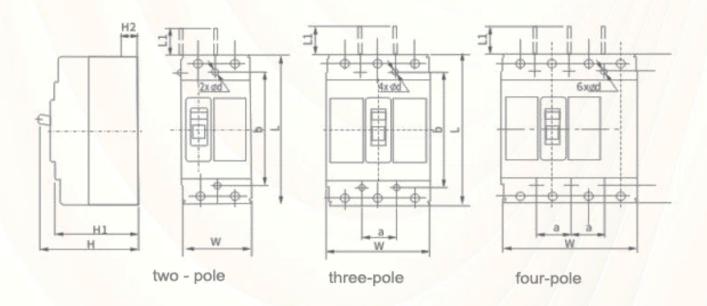
Main Parameters and Technical Performances

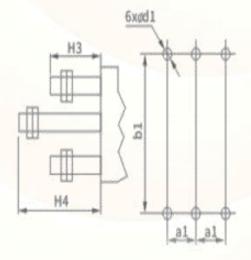
Model			SJKM1- SJKM1- 63 125		SJKM1- 250			SJKM1- 400			SJKM1- 630			SJKM1- 800	SJKM1-1250				
	Pole Numb	oer	3	4	2	3	4	2	3	4	3		4	3		4	3 4	3	4
	Rated Current	16 20 20 25 25 32 32 40 40 50 50 63			16 20 25 32 40 50 63 80 00 1	25	100 125 140 160 180 200 225 250			225 250 315 350 400			400 500 630			630 700 800	800 1000 1250		
	Rated Insulation Voltage Ui (V)			90	1000			1000			1	1000		1000		0	1000	1000	
	Rated Impulse Withstand Voltage Uimp V			6000										8000					
	Rated Workinç Ue V	g Voltage	400		AC400/6 90		0/6	AC400 90		0/6		40 90			40 90		AC400/6 90	AC4	100/690
	Breaking Capac	ity Level	L	М	L	М	Н	L	М	Н	L	М	Н	L	М	Н	Н		Н
	Ultimate Short-Circuit	400V	25	50	3 5	50	85	35	50	85	50	65	10 0	50	65	10 0	100		100
	Breaking Capacity Icu(KA)(O-tCO)	690V					25			25			30			30			25
	Service Short-Circuit	400V	18	30	2 5	35	50	25	35	65	35	50	65	35	50	65	65		50
	Breaking Capacity Ics(KA) (0-tCOtCO)	690V					15			15			20			20			20



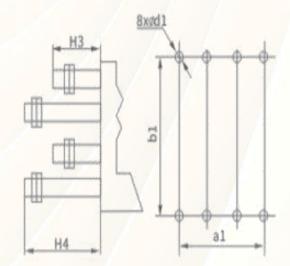
*Appearance and Installation Dimensions

Appearance and installation dimensions of the fixed - type front - connected and rear - connected wiring





Wiring dimensions behind the panel for three - pole



Wiring dimensions behind the panel for four - pole



*Appearance and installation dimensions of fixed - type front and rear wiring

Model	Pole	(Overa	all Dime	nsions	(mm)		Mount	ing Dime	ensions	Dime	Dimensions for Rear Terminal Wiring (mm)					
		L	L1	W	Н	H1	H2	a	b	φd	al	b1	d1	H3	H4		
SJKM1-63L	3	135	21	76	88	72	19	25	117	4	25	117	18	52	75		
SJKM1-63M					97	82	28										
SJKM1-63	4			103													
SJKM1-125L		150	51	92	86	68	24	30	129	4.5	30	132	22	65	100		
SJKM1-125M	3				104	86	23										
SJKM1-125H																	
C IV. M. 125	2			65													
SJKM1-125	4			122				30									
SJKM1-250L		165	64	107	108	87	25	35	126	5.5	35	144	24	70	110		
SJKM1-250M	3	165		107	124.5	104	24.5										
SJKM1-250H																	
SJKM1-250	2			75													
5514 TI 255	4			142													
0.11.0.11.0.0	3		40.5	149	450	400	-		40=						100		
SJKM1-400	4	257	105	198	150	100	36.5	44	195	6.5	44	225	32	70	120		
C IV M1 / 70	3	270	110	182	155	100	A1	го	200	7	го	274	40	70	120		
SJKM1-630	4	270	118	240	155	108	41	58	200	7	58	58 234		70	120		
SJKM1-800	3	282	102	210	158	103	34.5	70	243	7	70	243	48	70	125		
331(111 000	4	202	102	280	130	103	34.3	70	243	,	70	243	40	70	123		
SJKM1-1250	3	406	104	210	190	140.5	58.5	70	375	10		-	-		-		
Handle		Н			N		otrusione ne mic			L		W		F	1		
63	,	17 13.5		CI	63			44		22		5.	5				
125	•	19			13		125			51		23		5.			
250	2	22		12.5			250)		52		23		4			
400	4	43.5		33.5			400		8	9.5		65		7	,		
630	4	14		3.	3.5		630		(90		65.5		7	·		
800	4	10		3	3.5		800)		05		61		5)		
1250	ļ	51		4	41		1250)	1	00		78		10	5		