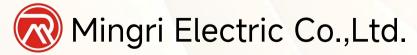


# Mingri Electric Low Voltage

Selection Guide





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Claire



## Earth Leakage Circuit Breaker

### SJKM1L



#### \*Product Description

SJKM1L Plastic-Cased Circuit Breaker with Residual Current Protection (hereinafter referred to as the circuit breaker) is one of the new-generation breakers developed by our company using advanced design software and manufacturing technology. With a rated insulation voltage of 800V, it is suitable for circuits with 50Hz AC, a rated operational voltage of 400V, and a rated operational current of up to 800A, where it serves for infrequent switching and occasional motor starting.

The circuit breaker provides protection against overload, short circuit, and undervoltage, safeguarding lines and power equipment from damage. It also offers protection against persistent ground faults that may pose a fire hazard and cannot be detected by conventional overcurrent protection devices.

Based on their rated ultimate short-circuit breaking capacity (Icu), the circuit breakers are classified into two types: M-type (higher breaking capacity) and H-type (high breaking capacity). These breakers feature compact size, high breaking capacity, short arc extinguishing distance, and high resistance to vibration.

### **\***Type Designation

SJK:Enterprise code

M:Molded case circuit breaker type code

- 1:Design serial number
- L:With residual current protection
- 1 Shell rated current level
- 2 Short circuit breaking capacity level: "Standard type" is represented by L; "Medium high breaking type" is represented by M; "High breaking type" is represented by H.
- ③Operation mode: No code for manual direct operation; "Handle operation with rotation" is represented by Z; "Electric operation" is represented by D.
- 4 Pole number: 3 for three pole; 4 for four pole.
- 5 Frame opening method and accessory code: (See the accessory code table [1])
- 6Graphic code: No code for distribution; "Motor protection" is represented by 2.
- 7Four pole product type code (the pole numbers are divided into four types: A, B, C, D), no code for three pole products.
- 8 Alarm module: "Alarm and trip" is represented by I; "Alarm without trip" is represented by II.

#### Note:

Shell - rated current codes: 1N25 represents 125A, 2N50 represents 250A, 4N00 represents 400A, 6N30 represents 630A, and 8N00 represents 800A.



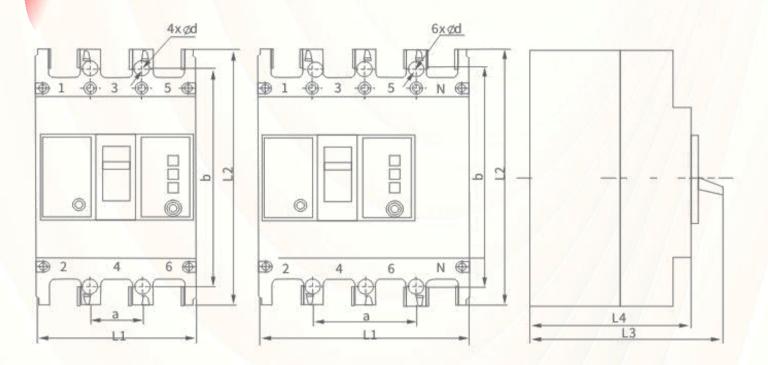


## \*Main Technical Parameters

Wildlif Technical Farantelers												
Model		SJKM1LE- 125		SJKM1LE- 250		SJKM1LE-400		:	SJKM1LE-630、800			
Maximum Rated Current of Shell Frame Grade A		125		250		400			800			
Rated Current In A		16 20 25 32 40 50 63 80 100 125		125 160 180 200 225 250		250 315 350 400			400 500 630 700 800			
Number of Poles		3	4	3	4	3	4	3	4			
Rated Insulation Voltage Ui V		AC800										
Rated Working Voltage Ue V		AC400										
Rated Impulse Withstand Voltage Uimp V			)	8000		8000			8000			
Arc - Quenching Distance mm		50		50		100			100			
Breaking Capacity Icu		L	М	L	М	L	М	L	М			
	AC400V	35	50	35	50	50	65	50	65			
	AC400V	22	35	25	35	35	5 42	35	42			
Rated Residual Short - Circuit Making (Breaking) Capacity Icu/4		8.75		12.5		15.75			16.25			
Rated Residual Operating Current I△n (mA)	Non - delay type	30/50/100 100/300/500		30/50/100 100/300/500		100/300/500			300/500/1000			
	Delay type	100/300/500		100/300/500		100/300/500			300/500/1000			
Rated Residual Operating Current I △ n (mA)		1/2I △ n		1/2I △ n		1/2l△n			1/ <b>2</b> I△n			
Number of Operating Performances	Energized	1500		1000		1000			1000			
	De - energized	8500		7000		4000			4000			
	Total number of times	10000		8000		5000			500			
Operating Time of Residual Current Protection			2l∆n		2l∆n		5l∆n		10l△n			
Maximum Breaking Time (S)	Non - delay type	0.2		0.1		0.4			0.04			
	Delay type	0.5/1.15/2.1 5		0.35/1/2		0.25/0.9/1.9			0.25/0.9/1.9			



#### \*Installation and Overall dimensions



Circuit breaker front - panel wiring

Model	pole	0\	verall Dimei	nsions (mn	Installation Dimensions (mm)						
		L1	L2	L3	L4	а	b	φd			
SJKM1L-125	2	65	151	110	75		129	2×φ4.5			
	3	93	151	110	92	30	129	4×φ4.5			
	4	123	151	110	92	60	129	6×φ4.5			
SJKM1L-250	2	75	165	110	90		129	2×φ4.5			
	3	107	165	110	90	35	126	4×φ4.5			
	4	142	165	110	90	70	126	6×φ4.5			
SJKM1L-400	3	154	257	146	106	44	194	4×φ4.5			
	4	198	257	146	106	94	194	6×φ4.5			
SJKM1L-630 SJKM1L-800	3	210	280	155	116	70	243	4×φ7			
	4	280	280	155	116	140	243	6×φ7			