

JMM1(CM1) Series Moulded Case Circuit Breaker

适用范围 Application

JMM1系列塑料外壳式断路器（以下简称断路器），是我公司采用国际先进技术开发设计、制造的新型断路器之一。其额定绝缘电压800V，适用于交流50Hz，额定工作电压400V及以下，额定工作的电流至800A的电路中作不频繁转换及电动机不频繁起动之用。断路器具有过载、短路和欠电压保护装置，能保护线路和电源设备不受损坏。产品符合IEC 60947-2标准。

JMM1series moulded case circuit breaker is one of products developed and manufactured by adopting international advanced technology. It is supplied with rated insulating voltage 800V and used for circuit of A.C.50Hz, rated operating voltage AC 400V (or below), rated operating current up to 800A for infrequent changing over and starting of the motors. The products conform to IEC 60947-2 standard.

技术参数 Specifications

Table1

型号Type	额定电流 Rated current (A)	极数 Pole num- ber	额定绝 缘电压 Rated insul-ating volt-age (V)	额定工 作电压 Rated operat- ingvolt-age(V)	飞弧距离 Arcin- over distance (mm)	额定极限短 路分断能力 ultimate short circuit breaking capacity(KA)	额定运行短 路分断能力 Servies short circuit breaking capacity(KA)	
JMM1-63L	(6),10,16, 22,25,32, 40,50,63	3,4	500V	400V	0	25	18	
JMM1-60M					0	50	35	
JMM1-100L	(10),16,20, 25,32,40, 50,63,80, 100				0(<50)	35	22	
JMM1-100M					0(<50)	50	35	
JMM1-100H					0(<50)	85	50	
JMM1-250L	100,125, 160,180, 200,225, 250		800V		<50	35	22	
JMM1-250M					<50	50	35	
JMM1-250H					<50	85	50	
JMM1-400L	225,250, 315,350, 400				<50	50	35	
JMM1-400M					<100	65	42	
JMM1-630L	400				<100	50	35	
JMM1-630M	500				<100	65	42	
JMM1-630H	630				<100	100	65	
JMM1-800M	630,700, 800				<100	75	50	
JMM1-800H					<100	100	65	

保护特性 Protection Characteristic

The thermodynamic release of a circuit breaker provides the feature of inverse time-delay, while the magnetic release is the instantaneous operation as shown on table 2 (distribution circuit breaker) and table 2 (motor protection circuit breaker).

Table2

脱扣器额定电流 Rated current of release(A)	热动型脱扣器 Thermodynamic release (ambient temp)		电磁脱扣器动作电流(A) Operational current of magnetic release(A)
	1.05In冷态(cold state) 不动作时间(h) Inoperative time(h)	1.30In热态(heat state) 动作时间(h) operative time(h)	
10 ≤ In < 63	≥ 1	< 1	10In ± 20%
63 < In ≤ 100	≥ 2	< 2	
100 < In < 800	≥ 2	< 2	5In ± 20% 10In ± 20%

Table3

脱扣器额定电流 Rated current of release(A)	热动型脱扣器 Thermodynamic release (ambient temp)				Operational current of magnetic releases(A)
	1.0In冷态(cold state) 不动作时间(h) Inoperative time(h)	1.2In冷态(cold state) 不动作时间(h) Inoperative time(h)	1.5In热态(heat state) 动作时间(h) operative time(h)	7.2In冷态(cold state) 动作时间(h) operative time(h)	
10 ≤ In ≤ 225	≥ 2	< 2	≤ 4min	4s < Tp ≤ 10s	12In ± 20%
225 < In ≤ 630			≤ 8min	6s < Tp ≤ 20s	



JMM1-100(CM1-100)



JMM1-250(CM1-250)



JMM1-400(CM1-400)

JMM1LE(CM1LE) Moulded Case Circuit Breaker

适用范围 Application

JMM1LE系列塑料外壳式断路器（以下简称断路器），是我公司采用国际先进技术开发设计、制造的新型断路器之一。其额定绝缘电压800V，适用于交流50Hz，额定工作电压400V及以下，额定工作的电流至800A的电路中作不频繁转换及电动机不频繁启动之用。断路器具有过载、短路和欠电压保护装置，能保护线路和电源设备不受损坏。

JMM1LE series moulded case circuit breaker with residual current production. Rated insulation voltage is 800V. It applies to circuit of AC 50Hz, rated working voltage 400V and rated working current up to 630V, for in frequent switch over and infrequent start of motor. With overload, Short circuit and under-voltage production, it can protect circuits and power-supply equipment from damage, can also be used for production from damage and any potential fire hazard caused by long existing earth fault which can not be detected by over-current production. The value of residual current is selectable.

技术参数 Specifications

Type	Frame Rated Current Inm(A)	Rated Current In(A)	Rated Ultimate Short Circuit Breaking Capacity Icu(KA)	Rated Short Circuit Breaking Capacity Icu(KA)	Rated Residual Action Current IΔn(MA)	Rated Residual Non–action Current IΔno(MA)
JMM1LE –100	100	16,20,32,40 50,63,80,100	35	22	100/300/500	1/2IΔno
JMM1LE –225	225	100,125,140 160,180, 200,225	35	25		
JMM1LE –400	400	225,250 315,350,400	50	35	300/500/1000	
JMM1LE –630	630	400,500,630	50	35		

Residual Current		I Δ n	2I Δ n	5I Δ n	10I Δ n
Non Time-Delay Type	Max.Breaking Time(s)	0.2	0.1	0.04	0.04
Time-delay Type	Min.Breaking Time(s)	0.5/1.15/2.15	0.35/1/2	0.25/0.9/1.9	0.25/0.9/1.9
	Ultimate non-driving time Δ t(s)	-	0.1/0.5/1	-	-

Type	Rated Working Voltage(V)		
		AC 50Hz	DC
Shunt Release	Us	230,400	110,220
Under-Voltage Release	Ue	230,400	-
Electrical Mechanism	Us	230,400	110,220

Conventional heat Current Ith(A)	Rated Insulating Voltage Ui(V)	Rated Working Current Ie(A)		Rated Current of Frame Inm(A)
		AC 400V	DC 220V	
1	400	0.3	0.15	Used as Auxiliary Contact
2		0.3	0.15	≤225
3		0.4	0.2	≥400



JMM1LE-125(CM1LE-125)



JMM1LE-225(CM1LE-225)



JMM1LE-400(CM1LE-400)