

UKM30

系列塑料外壳式断路器

Series Moulded Case Circuit Breaker

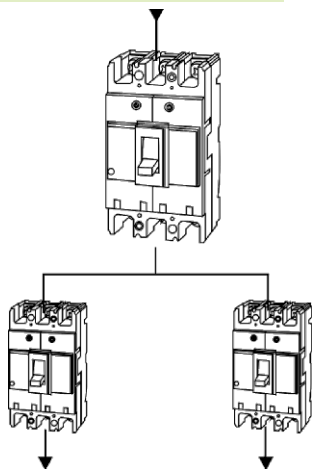


UKM30 Series Moulded Case Circuit Breaker

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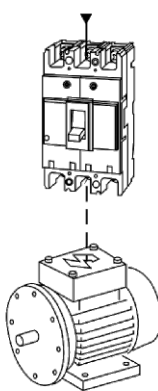
低压配电网络保护

Low-voltage power distribution network



电动机的控制和保护

Control and protection of motor



双电源转换系统

Dual power changeover system

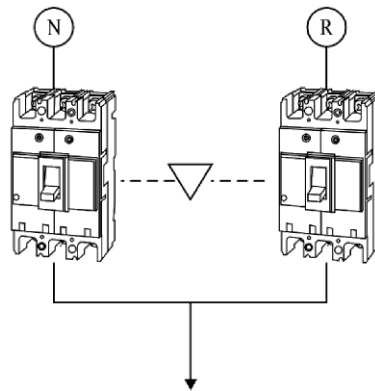


表 (table)1

代号 Code	型号 Type	说明 Specification
A	A型	N极不装过电流脱扣器，且N极始终接通，不与其他三极一起合分 N phase without overcurrent trip unit is normal open and do not make and break along with other 3 poles
B	B型	N极不装过电流脱扣器，与其他三极一起合分 N phase without overcurrent trip unit make and break along with other 3 poles

表 (table)2

代号 Code	名称 Title	说明 Description
1	延时脱扣器 Delay trip	具有过电流反时限保护特性 The protection of overcurrent reverse time.
2	瞬时脱扣器 Instantaneous trip	即电磁脱扣器,具有过电流瞬时动作保护特性 Electromagnetic release of overcurrent instantaneous protection
3	复式脱扣器 Multiple trip	同时具有上述两种功能 With the above two performances

表 (table)3

Inm (A)	I			II	III		备注 Note
	代号 Code	说明 Description	代号 Code	说明 Description	代号 Code	说明 Description	
63 100 250	0	无 Null	0~2	辅助触头组数 Pairs of auxiliary contacts	0~2	报警触头组数 Pairs of alarm contacts	
	1	分励脱扣器 Shunt trip	0~1		0~1		
	2	欠电压脱扣器 Under-voltage trip	0~1		0~1		
400	0	无 Null	0~5		0~2		Ⅱ + Ⅲ ≤5
	1	分励脱扣器 Shunt trip	0~3		0~2		Ⅱ + Ⅲ ≤3
	2	欠电压脱扣器 Under-voltage trip	0~3		0~2		Ⅱ + Ⅲ ≤3
	3	分励、欠电压脱扣器 Shunt trip & Under-voltage trip	0~1		0~1		Ⅱ + Ⅲ ≤1
630 800 1250 1600	0	无 Null	0~8		0~3		Ⅱ + Ⅲ ≤8
	1	分励脱扣器 Shunt trip	0~5		0~3		Ⅱ + Ⅲ ≤5
	2	欠电压脱扣器 Under-voltage trip	0~5		0~3		Ⅱ + Ⅲ ≤5
	3	分励、欠电压脱扣器 Shunt trip & Under-voltage trip	0~3		0~2		Ⅱ + Ⅲ ≤3

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Main technical parameter

主要技术性能指标

壳架等级 额定电流 Inm(A)		63		100				250			
产品型号 Model		UKM30-63S		UKM30-100C	UKM30-100S	UKM30-100H	UKM30-100U	UKM30-250C	UKM30-250S	UKM30-250H	UKM30-250U
外形 Photo											
额定电流 Rated current(A)		10,16,20,32,40,50,63 (75,100)		16,25,32,40,50,63,75,100 (125,160)				100,125,150,175,200,225,250			
极数 Poles		3		3	4	3	4	3	4	3	4
额定绝缘电压 Rated Insulation Voltage Ui(V)		AC600		AC690				AC690			
飞弧距离(mm) Arcing distance		≤50(0°)		≤50(0°)				≤50(0°)			
额定极限/运行 短路分断能力 Rated ultimate/ service short-circuit breaking capacity(Ka)	AC690V	-		-	5/3	10/5	10/5	-	10/7	10/5	10/5
	AC400V	10/5		30/15	50/35	85/85	125/125	30/15	50/35	85/85	125/125
	AC230V	25/13		50/25	100/50	125/125	200/200	50/25	70/50	125/125	200/200
操作性能(次) Operational performance (times)	通电 ON	6000		6000				2000			
	不通电 OFF	8500		8500				7000			
外形尺寸 Dimension(mm)	a	75		90	120	90	120	90	90	105	140
	b	130		155			216			165	
	c	68		68				68			
重量 Weight (Kg)		0.75		1.0	1.3	1.1	1.4	1.8	1.8	1.5	1.9
额定操作频率(次/h) Rated Operation Frequency(per hour)		120		120				120			

*0飞弧需在订货时注明。*0" arcing distance: please specify when ordering if you require.

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Main technical parameter

主要技术性能指标

壳架等级额定电流 Inm(A)		400						630					
产品型号 Model		UKM30-400C UKM30D-400C	UKM30-400S UKM30D-400S	UKM30-400H UKM30D-400H	UKM30-400U UKM30D-400U			UKM30-630C UKM30D-630C	UKM30-630S UKM30D-630S	UKM30-630H UKM30D-630H	UKM30-630U UKM30D-630U		
外形 Photo													
额定电流 Rated current(A)		250,300,350,400						400,500,630					
极数 Poles		3	4	3	4	3	3	3	4	3	4	3	3
额定绝缘电压 Rated insulation voltage Ui(V)		AC690						AC690					
飞弧距离(mm) Arcing distance		≤100(0°)						≤100(0°)					
额定极限/运行 短路分断能力 Rated ultimate/ service short-circuit breaking capacity (Ka)	AC690V	10/5	10/10	15/10	35/35			10/5	15/15	20/15	35/35		
	AC400V	40/20	70/70	100/100	125/125			40/20	70/70	100/100	125/125		
	AC230V	50/25	100/100	150/100	200/200			50/25	100/100	150/100	200/200		
操作性能(次) Operational performance (times)	通电 ON	1000						500					
	不通电 OFF	4000						2500					
外形尺寸 Dimension(mm)	a	140	185	140	185	140	140	210	280	210	280	210	210
	b	257			297			275			322		
	c	103			200			103			200		
重量 Weight (Kg)		5.5	7.3	5.7	7.5	16.7	16.7	9.4	12.5	10.9	14.2	26.7	26.7
额定操作频率(次/h) Rated Operation Frequency(per hour)		60						20					

*0°飞弧需在订货时注明。 *0° arcing distance: please specify when ordering. if you require.

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Main technical parameter

主要技术性能指标

壳架等级额定电流 Inm(A)		800					
产品型号 Model		UKM30-800C UKM30D-800C		UKM30-800S UKM30D-800S		UKM30-800H UKM30D-800H	UKM30-800U UKM30D-800U
外形 Photo							

1. UKM30-630/800A的磁脱扣（短路保护）的保护电流I_{li}用户可通过外部旋钮实施调节，有500%/800%/1100%/1400%四个档位可调，出厂置于1100%I_n的位置。
2. 四极断路器的中性极(N极)均不装设过电流脱扣器，其约定发热电流值与其它三极相同。

*0°飞弧需在订货时注明。*0° arcing distance: please specify when ordering if you require.

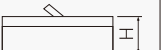
1. The protection current I_{li} of the UKM30-630/800A magnetic trip (short circuit protection) can be adjusted by the user through an external knob, with four adjustable levels of 500%/800%/1100%/1400%, and is set to the 1100% I_n position at the factory.
2. There is no over-current release for neutral phase of 4P MCCB and the thermal current is the same with other three phases

UKM30 Series Moulded Case Circuit Breaker

系列塑料外壳式断路器

Main technical parameter

主要技术性能指标

壳架等级额定电流 Inm(A)		1250		1600		
产品型号 Model		UKM30-1250		UKM30-1600		
外形 Photo						
额定电流 Rated current		630, 700, 800, 1000, 1250		800, 1000, 1250, 1400, 1600		
极数 Poles		3	4	3	4	
额定工作电压 Rated working voltage		AC400,690		AC400,690		
额定绝缘电压 Rated insulation voltage		AC1000		AC1000		
额定极限分断能力 Rated ultimate/ breaking capacity Icu/kA	AC690V	25		30		
	AC400V	80		80		
额定运行分断能力 Rated service/ breaking capacity Ics/kA	AC690V	20		20		
	AC400V	40		40		
外形尺寸 Dimension		W	210	280	210	280
		L	275		275	
		H	103		103	
接线方式 Connection method	板前接线 Front connection		☆		☆	
	板后接线 Rear connection		☆		☆	
	抽出式 Withdrawal connection		☆		☆	
附件 Accessories	内部 附件 Internal	欠电压脱扣器 Undervoltage trip	☆		☆	
		分励脱扣器 Shunt trip	☆		☆	
		辅助触头 Auxiliary contact	☆		☆	
		报警触头 Alarm contact	☆		☆	
	外部 附件 External	电动操作机构 Electrical operating mechanism	☆		☆	
		转动手柄操作机械 Rotary handle	☆		☆	
飞弧距离 (mm) Arcing distance mm		≤100		≤100		
重量(Kg) Weight(Kg)		16	21	19.5	26	

UKM30 Series Moulded Case Circuit Breaker

系列塑料外壳式断路器

配电用断路器过电流保护特性见表1

电动机保护用断路器过电流保护特性见表2

UKM30过电流保护特性曲线见下图

a-冷态热过载保护特性;

b-热态热过载保护特性;

c-电磁脱扣器保护特性;

The overcurrent protection characteristics of circuit breakers for power distribution are shown in Table 1

The overcurrent protection characteristics of circuit breakers for motor protection are shown in Table 2

UKM30 overcurrent protection characteristic curve is shown in figure below

a- Thermal overload protection characteristic in cold state

b- Thermal overload protection characteristic in thermal state

c- Electromagnetic release protection characteristics

Overcurrent protection characteristics of circuit breakers for power distribution

配电用断路器过电流保护特性

表(table)1

额定电流In(A) Rated current In(A)	热脱扣器(环境温度+40℃) Thermal tripper (ambient temperature +40℃)		电磁脱扣器动作电流 (A) The operating current of electromagnetic tripper(A)
	1.05 In 不动作时间 (h) (超始状态: 冷态) 1.05 In non-operating time(h)(starting state: cold)	1.30 In 不动作时间 (h) (超始状态: 热态) 1.30 In non-operating time(h)(starting state: hot)	
≤63	> 1	≤ 1	(10 ± 2)In (注)
> 63	> 2	≤ 2	

Motor Circuit Breaker Overcurrent Protection Characteristic

电动机用断路器过电流保护特性

表(table)2

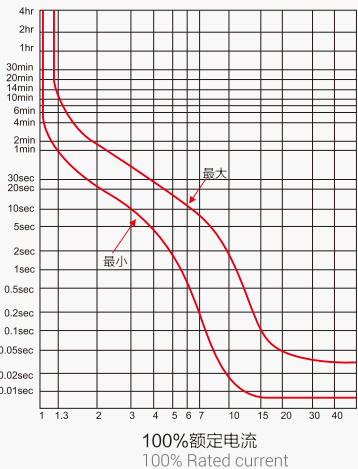
额定电流In(A) Rated current In(A)	热脱扣器(环境温度+40℃) Thermal tripper (ambient temperature +40℃)				电磁脱扣器 动作电流 (A) The operating current of electromagnetic tripper(A)
	1.0 In 不动作时间 (h) (超始状态: 冷态) 1.0 In non-operating time(h) (starting state: cold)	1.2 In 动作时间 (h) (超始状态: 热态) 1.2 In operating time(h) (starting state: hot)	1.5 In 动作时间 (min) (超始状态: 热态) 1.5 In operating time(h) (starting state: hot)	7.2 In 动作时间TP (s) (超始状态: 冷态) 7.2 In operating time(h) (starting state: cold)	
≤63	> 2	≤2	≤2	2<Tp≤10	(12 ± 2.4)In (注)
63<In≤250			≤4	4<Tp≤10	
250<In≤800			≤8	6<Tp≤20	

注: UKM30-630、800的电磁脱扣器动作电流为(5~14)In可调。

Note: The operation current of electromagnetic tripper for UKM30-630/UKM30-800 is adjustable(5In~14In)

UKM30-63 Overcurrent Protection Characteristic Curve

UKM30-63过电流保护特性曲线

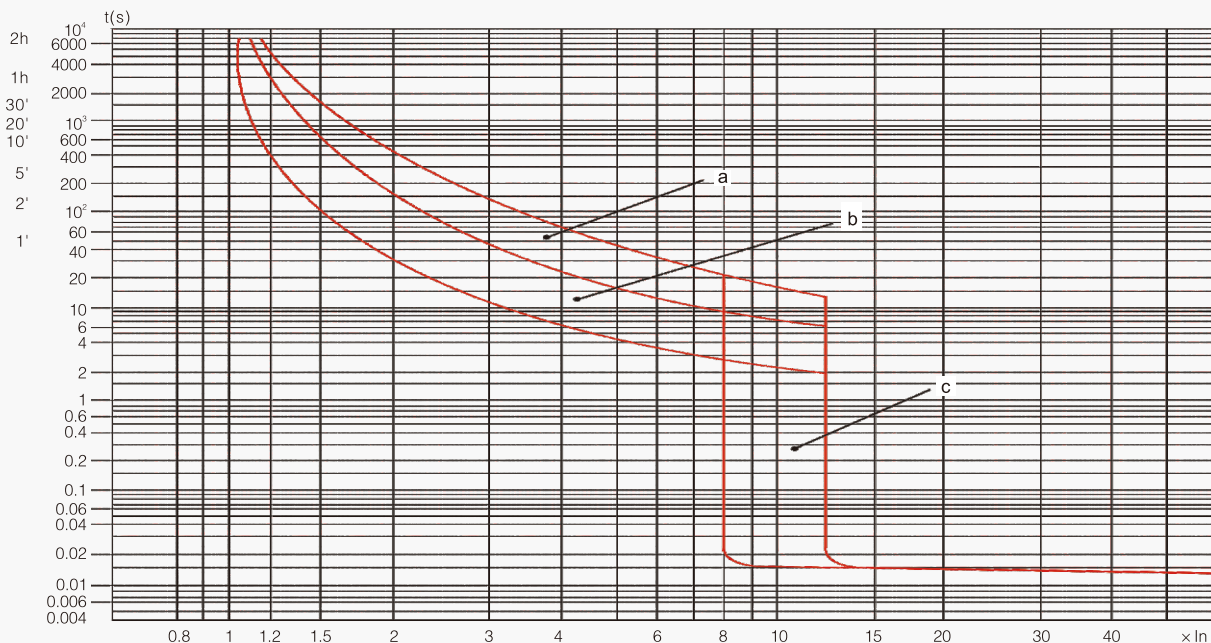


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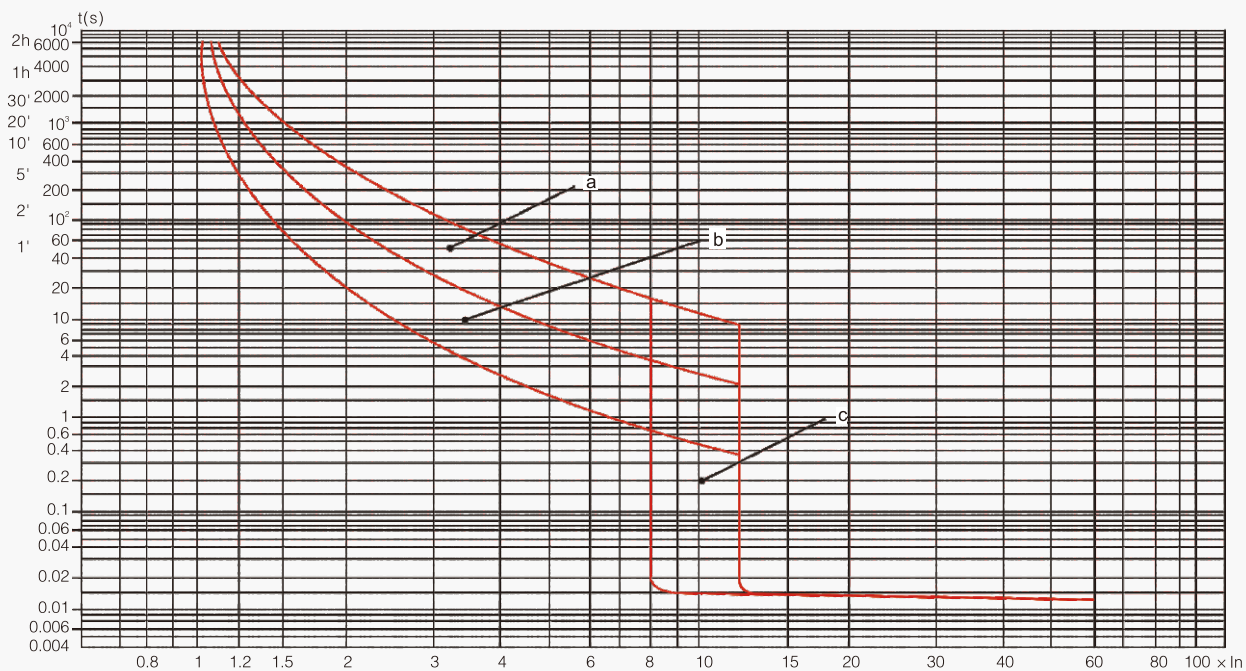
UKM30-100 Overcurrent Protection Characteristic Curve

UKM30-100过电流保护特性曲线



UKM30-250 Overcurrent Protection Characteristic Curve

UKM30-250过电流保护特性曲线

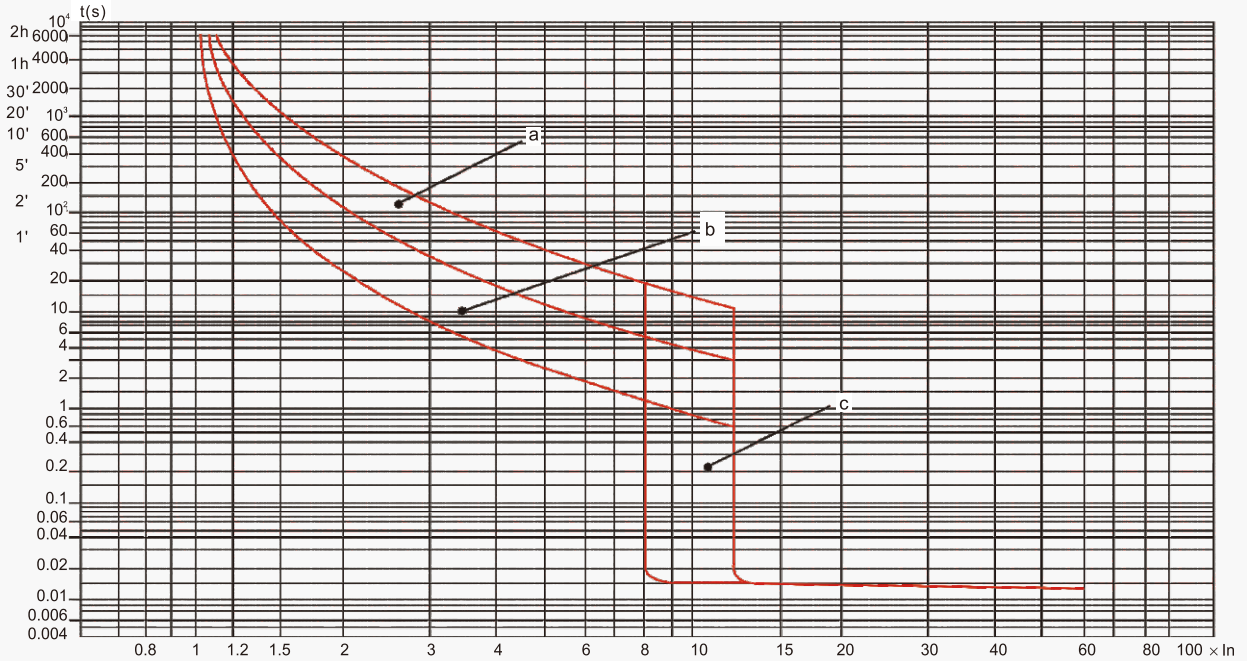


UKM30 Series Moulded Case Circuit Breaker

系列塑料外壳式断路器

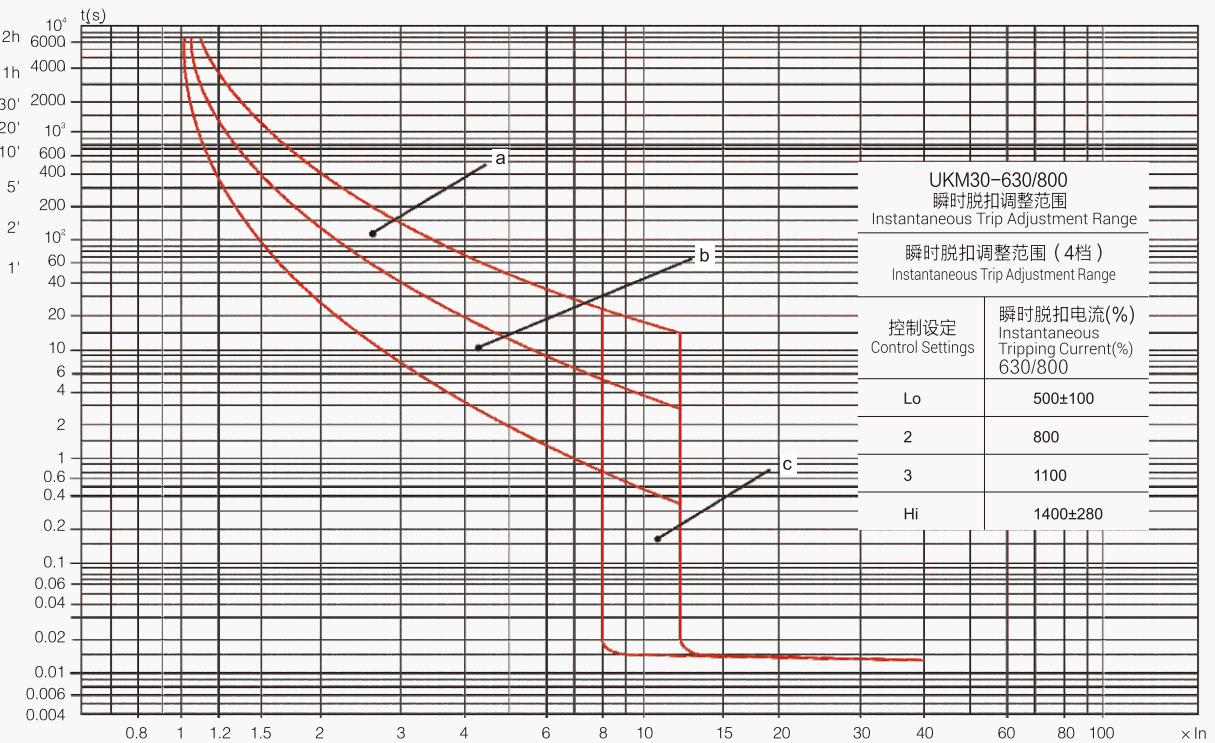
UKM30-400 Overcurrent Protection Characteristic Curve

UKM30-400过电流保护特性曲线



UKM30-630,800 Overcurrent Protection Characteristic Curve

UKM30-630 / 800过电流保护特性曲线

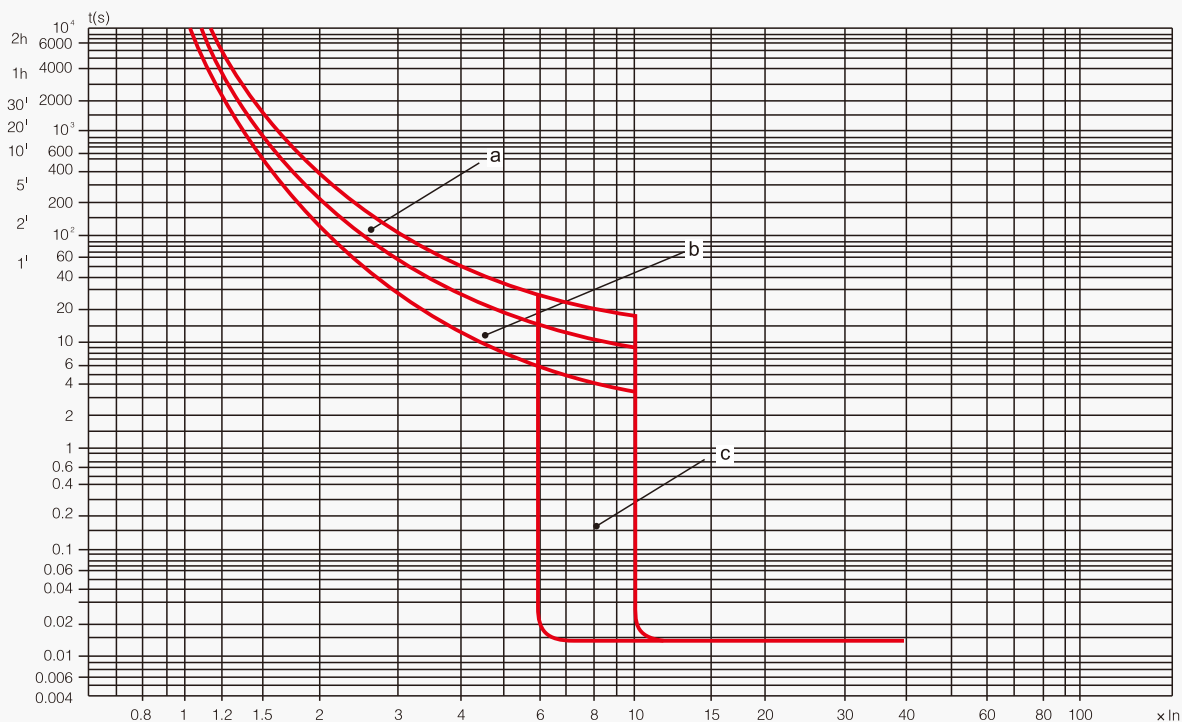


UKM30 Series Moulded Case Circuit Breaker

系列塑料外壳式断路器

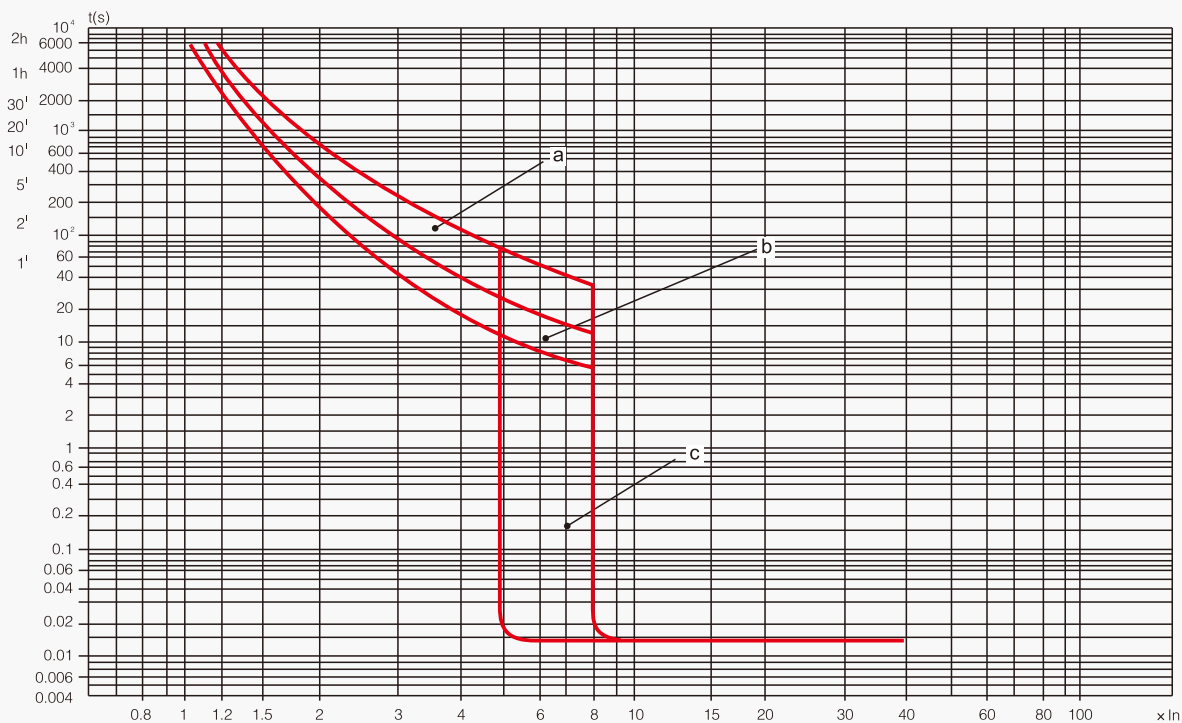
UKM30-1250 Overcurrent Protection Characteristic Curve

UKM30-1250过电流保护特性曲线



UKM30-1600 Overcurrent Protection Characteristic Curve

UKM30-1600过电流保护特性曲线

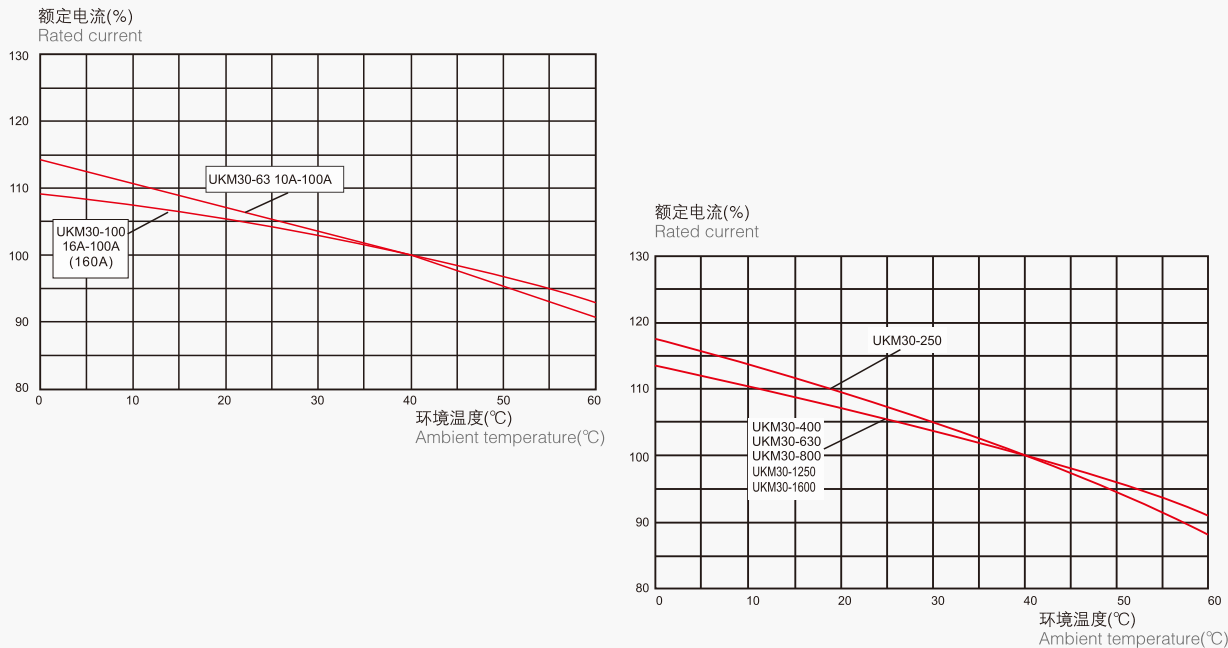


UKM30 Series Moulded Case Circuit Breaker

系列塑料外壳式断路器

UKM30 Series Thermal-Trip Curve

UKM30系列热脱扣器温度校正曲线



Power Losses of MCCB

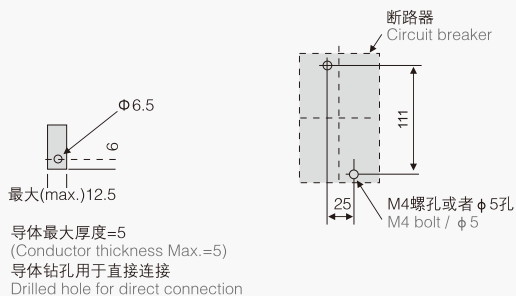
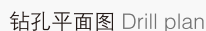
断路器的功率损耗

壳架等级额定电流 Inm(A)	额定电流In(A) Rated current In(A)	每极电阻(mΩ) Resistance of each pole	三极总功率损耗(W) Gross power consumption of three-pole	
			固定式 Fixed	插入式或抽出式 Plug-in / Withdrawal
100	100	0.83	25	30
250	250	0.32	60	75
400	400	0.18	85	105
630	630	0.14	170	195
800	800	0.11	210	260
1250	1250	0.04	150	
1600	1600	0.05	240	

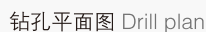
注: UKM30-630、800的电磁脱扣器动作电流为(5~14)In可调。
Note: The operation current of electromagnetic tripper for UKM30-630/UKM30-800 is adjustable(5In-14In)

系列塑料外壳式断路器

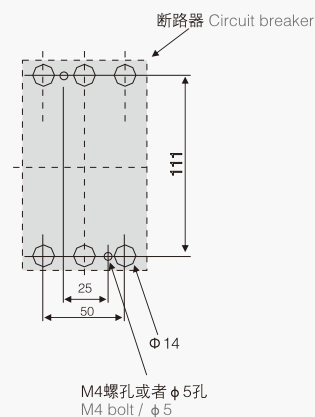
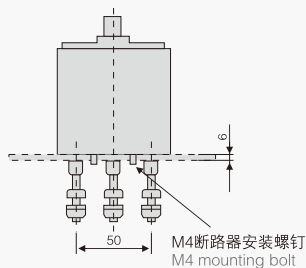
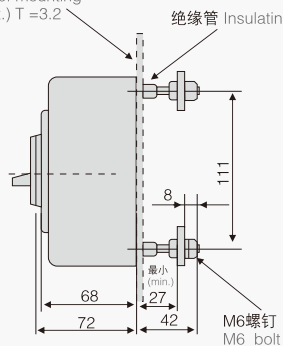
UKM30-63S外形及安装尺寸



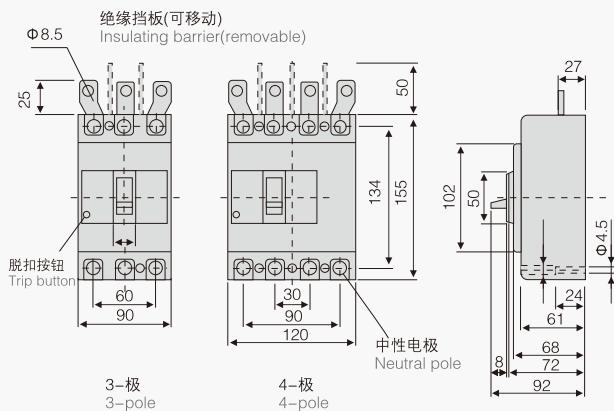
3-极
3 pole



绝缘管 Insulating tube

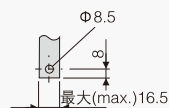


UKM30-100外形及安装尺寸

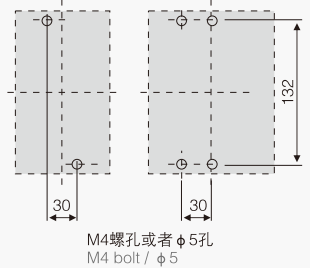
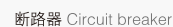


可使用导线尺寸: $I_n=16\sim63A$ $2.5\sim35mm^2$
Applicable conductor $I_n=75\sim100A$ $25\sim50mm^2$
dimension

接线方式 Wiring method



导体最大厚度=5
(Conductor thickness Max.=5)
导体钻孔用于直接连接
Drilled hole for direct connection

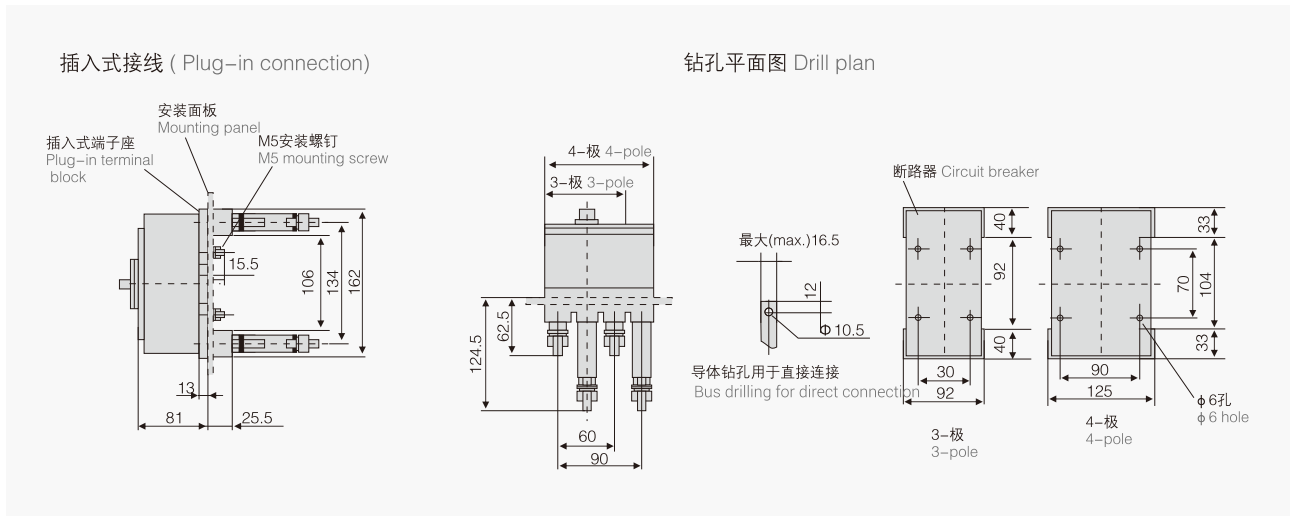
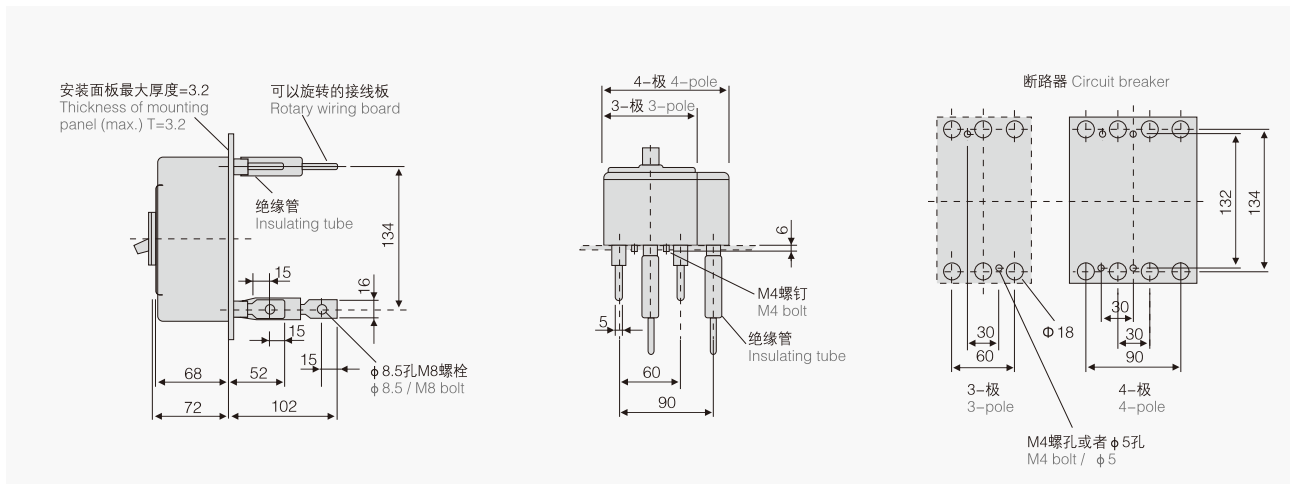


3-极
3-pole

4-极
4-pole

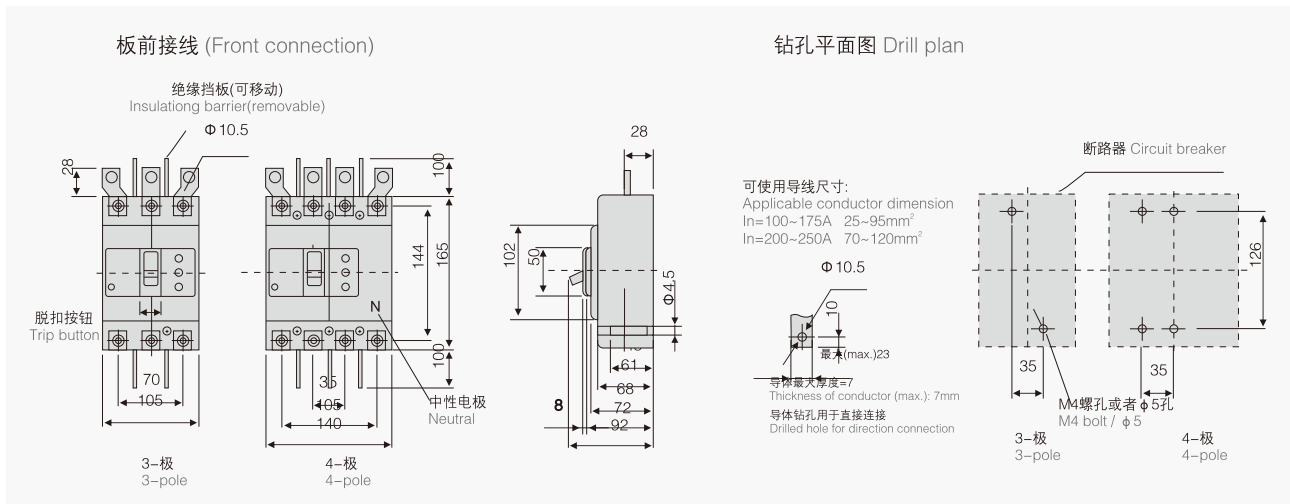
UKM30 Series Moulded Case Circuit Breaker

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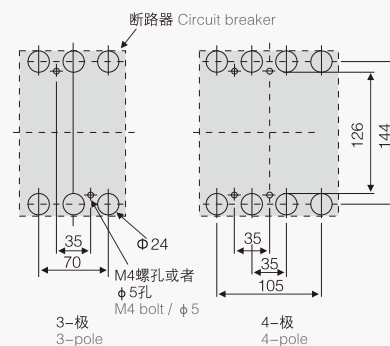
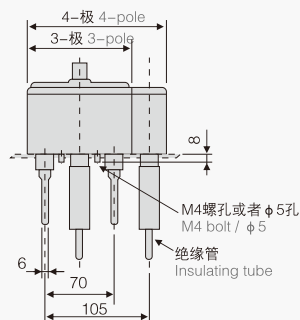
UKM30-250 Outline & Mounting Dimension

UKM30-250外形及安装尺寸

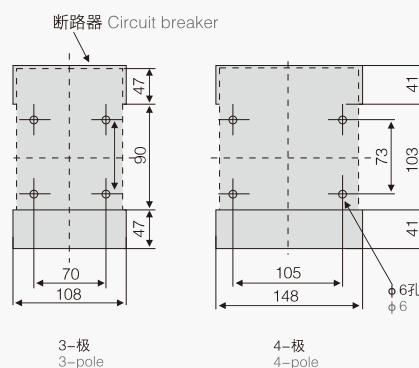
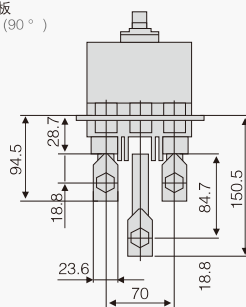
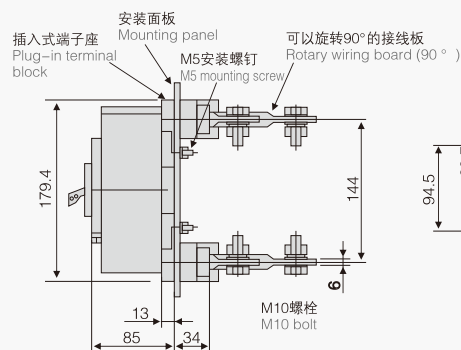


系列塑料外壳式断路器

钻孔平面图 Drill plan

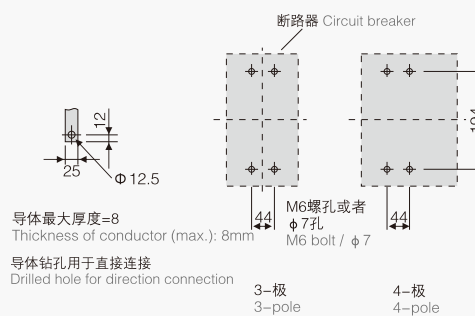
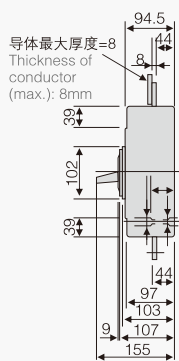
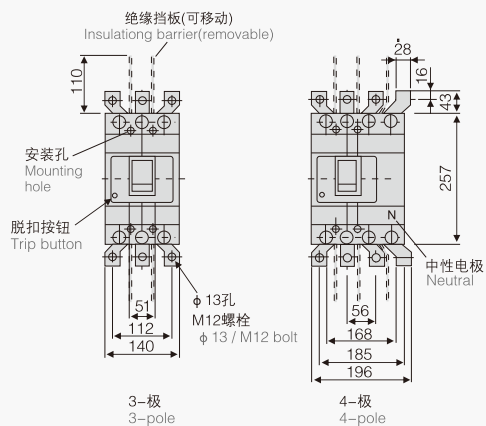


钻孔平面图 Drill plan



UKM30-400外形及安装尺寸

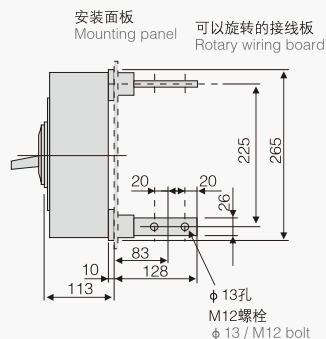
钻孔平面图 Drill plan



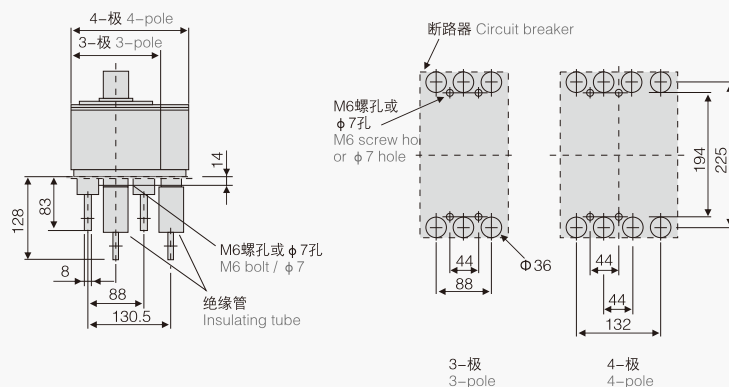
UKM30 Series Moulded Case Circuit Breaker

系列塑料外壳式断路器

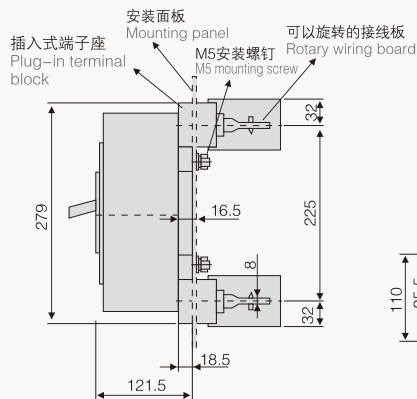
板后接线 (Rear connection)



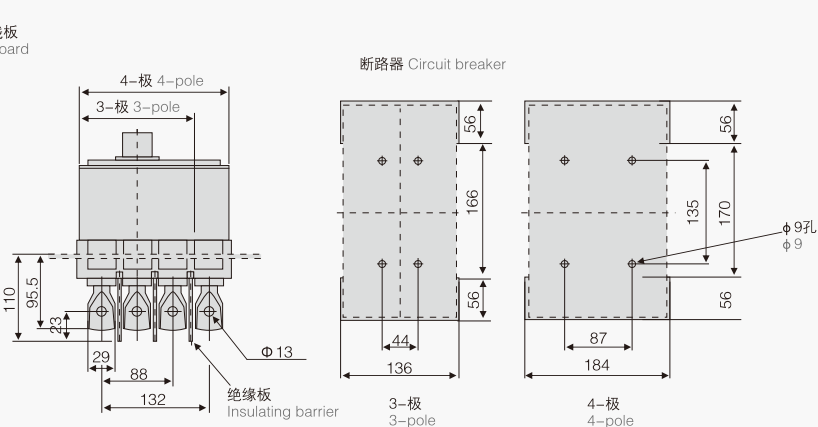
钻孔平面图 Drill plan



插入式接线 (Plug-in connection)



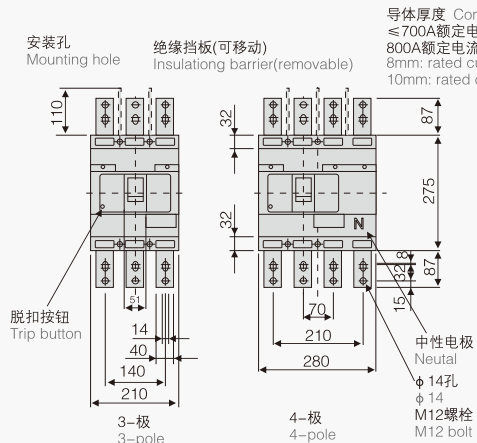
钻孔平面图 Drill plan



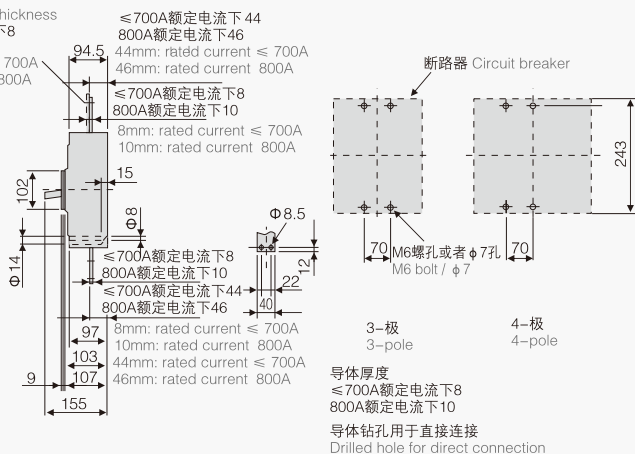
UKM30-630,800 Outline & Mounting Dimension

UKM30-630,800外形及安装尺寸

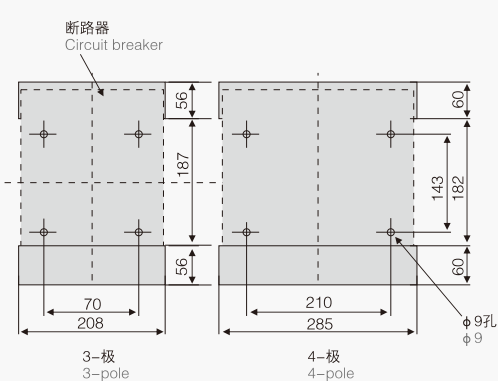
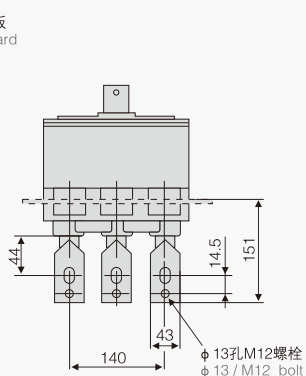
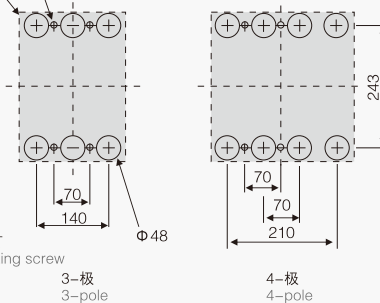
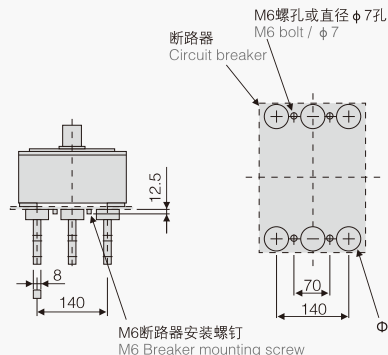
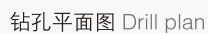
板前接线 (Front connection)



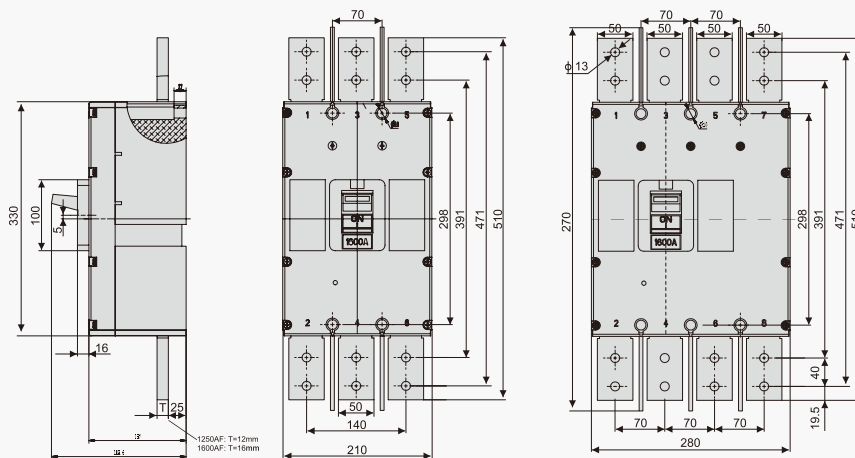
钻孔平面图 Drill plan



系列塑料外壳式断路器



UKM30-1250,1600外形及安装尺寸



UKM30 Series Moulded Case Circuit Breaker

系列塑料外壳式断路器

Accessories of Circuit breaker

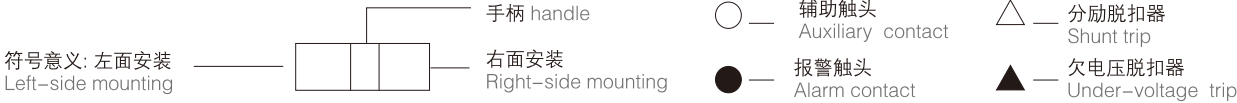
断路器的附件

附件型号一览表 General table

壳架等级额定电流 Inm(A)		63	100	250	400	630,800
内部附件 Internal accessories	报警触头 Alarm contact	B1	B2	B3	B4	
	辅助触头 Auxiliary contact	F1	F2	F3	F4	
	分励脱扣器 Shunt trip	FL1	FL2	FL3	FL4	
	欠电压脱扣器 Under-voltage trip	QY1	QY2	QY3	QY4	
内部附件接线端子座 Connection terminal block as internal accessories						
外部附件 External accessories	旋转操作手柄 Rotary operating handle	CS1-63	CS1-100	CS1-250	CS1-400	CS1-630,800
	电动操作机构 Electrical operating mechanism	-	MD1	MD2	-	-
	电动操作机构 Electrical operating mechanism	-	MDX1	MDX2	MDX3	MDX4

内部附件代号及安装位置图

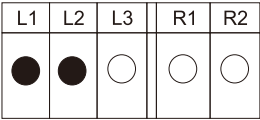
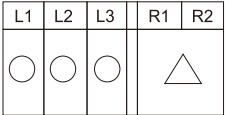
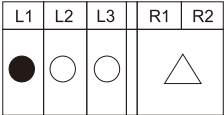
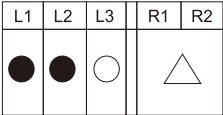
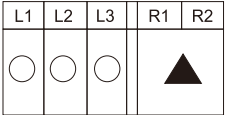
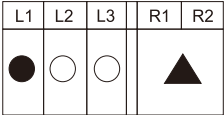
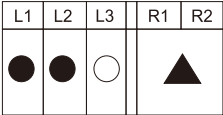
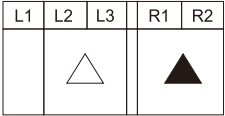
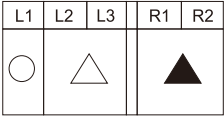
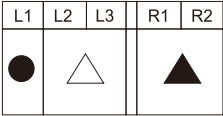
Code & Installation

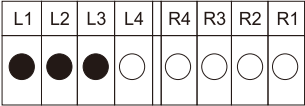
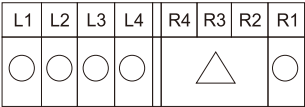
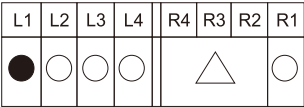
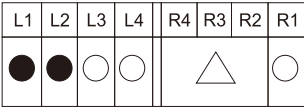
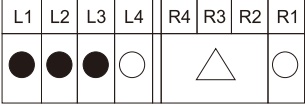


壳架等级额定电流 Inm(A)	63A, 100A, 250A		
附件代号 Code	0 (0~2) 0	0 (0~2) 1	0 (0~2) 2
位置图 Position			
附件代号 Code	1 (0~1) 0	1 (0~1) 1	
位置图 Position			
附件代号 Code	2 (0~1) 0	2 (0~1) 1	
位置图 Position			

UKM30 Series Moulded Case Circuit Breaker

系列塑料外壳式断路器

壳架等级额定电流 Inm(A)	400A		
附件代号 Code	0 (0~5) (0~2)		
位置图 Position	 注:后两位数字相加≤5 Note: the sum of last two digits : ≤5		
附件代号 Code	1 (0~3) 0	1 (0~2) 1	1 (0~2) 1
位置图 Position			
附件代号 Code	2 (0~3) 0	2 (0~2) 1	2 (0~1) 2
位置图 Position			
附件代号 Code	300	310	301
位置图 Position			

壳架等级额定电流 Inm(A)	630A ~ 800A		
附件代号 Code	0 (0~8) (0~3)		
位置图 Position	 注:后两位数字相加≤5 Note: the sum of last two figures : ≤5		
附件代号 Code	1 (0~5) 0	1 (0~4) 1	1 (0~3) 2
位置图 Position			
附件代号 Code	1 (0~2) 3		
位置图 Position			

UKM30 Series Moulded Case Circuit Breaker

系列塑料外壳式断路器

附件代号 Code	2 (0~5) 0	2 (0~4) 1	2 (0~3) 2
位置图 Position			
附件代号 Code	2 (0~2) 3		
位置图 Position			
附件代号 Code	3 (0~3) 0	3 (0~2) 1	3 (0~1) 2
位置图 Position			

Parameter of auxiliary & alarm contact

辅助触头报警触头参数

断路器不同工作状态下的辅助、报警触头线路图 The circuit drawings of auxiliary contact & alarm contact in different working status

断路器工作状态 Working status of circuit breaker	辅助触头 Auxiliary contact	报警触头 Alarm contact
合 Colse		
分 Open		
脱扣 Tripping		

Main technical parameter

主要技术参数

额定绝缘电压 $U_i=400V, AC$

额定发热电流 $I_{th}=6A$;

额定工作电压 U_e 及对应的额定工作电流 I_e
AC400V, 1A; AC230V, 3A。

DC220V, 0.15A

Rated insulation voltage $U_i=400V, AC$

Rated thermal current $I_{th}=6A$

Rated operation voltage(U_e) & rated operation current (I_e)
current I_e AC400V, 1A; AC230V, 3A

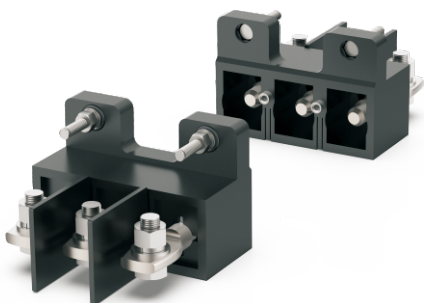
DC220V, 0.15A

电寿命和接通、分断能力 Electrical life & making and breaking capacity

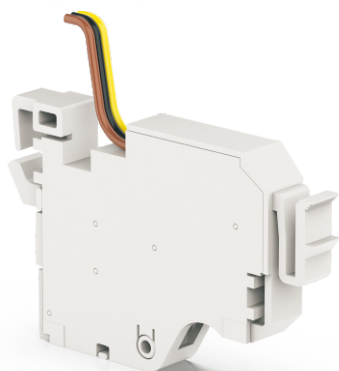
使用类别 Using categories		接通 Making			分断 Breaking			循环次数 Cycle time	操作频率 (次/min) Operating frequency (time/min)	通电时间(s) Time of making
AC		I/I _e	U/U _e	cos ϕ	I/I _e	U/U _e	cos ϕ			
AC-15	电寿命 Electrical life	10	1	0.3	1	1	0.3	6050	6	≥ 0.05
	接通、分断能力 Making & breaking capacity	10	1.1	0.3	10	1.1	0.3	10	6	≥ 0.05
DC		I/I _e	U/U _e	T0.95	I/I _e	U/U _e	T0.95			
DC-13	电寿命 Electrical life	1	1	300ms	1	1	300ms	6050	6	≥ 0.3
	接通、分断能力 Making & breaking capacity	1.1	1.1	300ms	1.1	1.1	300ms	10	6	≥ 0.3

UKM30 Series Moulded Case Circuit Breaker

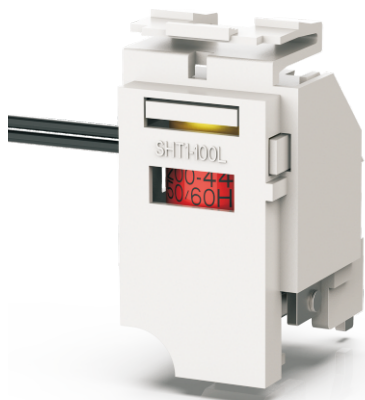
系列塑料外壳式断路器



插入式板后接线



报警辅助



分励脱扣器

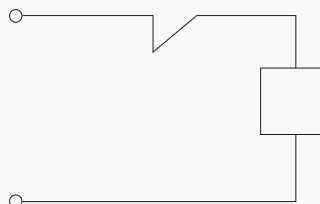


欠压脱扣器单元

The parameter of shunt trip

分励脱扣器参数

分励脱扣器线路图 Circuit figure of shunt trip



额定电压(Rated voltage)

Us: 110V, 230V, 400V

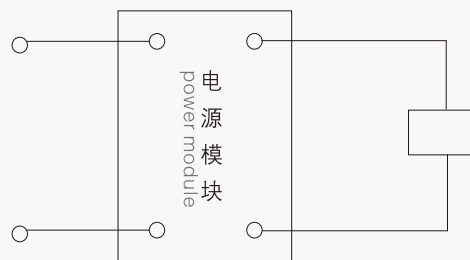
DC: 24V, 48V, 110V,

输入容量(Input capability)

AC: 180VA DC: 60W

The parameter of Under-voltage trip

欠电压脱扣器参数



电源模块

1. 电源模块可插挂在断路器的侧面,也可独立安装
 2. 额定电压: U_e : AC: 110V、230V、400V; DC: 24V、48V、110V;
 3. 输入容量: AC: 5VA; DC: 2W;
 4. 动作电压: $U = (70\% \sim 35\%) U_e$; 断路器脱扣分断;
 5. 动作时间: (10~30)ms;
- $U \geq 85\% U_e$, 断路器能够闭合;
- $U \leq 35\% U_e$, 断路器不能闭合。

Power module

1. power module can be fitted at the side of the circuit breaker, and the independent installation available
 2. rated voltage U_e : AC: 110V、230V、400V; DC: 24V、48V、110V;
 3. input capability AC: 5VA; DC: 2W;
 4. operating voltage: $U = (70\% \sim 35\%) U_e$; circuit breaker tripping & breaking
 5. operating time: (10~30)ms ;
- $U \geq 85\% U_e$, circuit breaker could be closed
- $U \leq 35\% U_e$, circuit breaker can not be closed

UKM30 Series Moulded Case Circuit Breaker

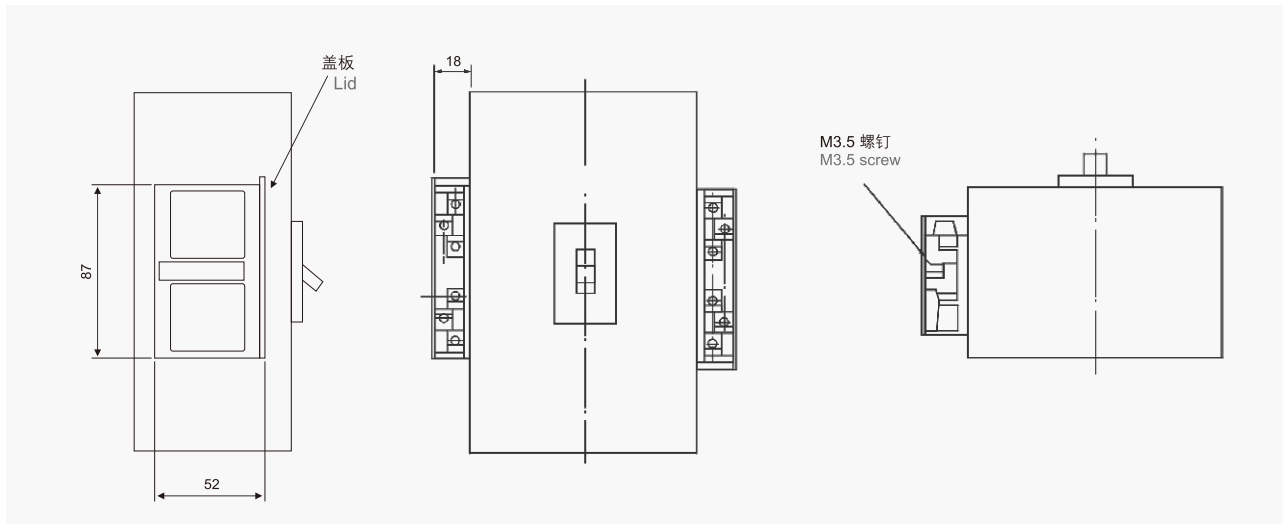
系列塑料外壳式断路器

JX series wiring terminal block-internal accessories

Jx型内部附件接线端子座

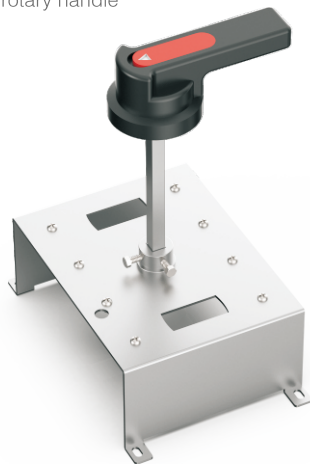
该接线端子座插挂在断路器侧面

The wiring terminal block is hanged at the side of circuit breaker



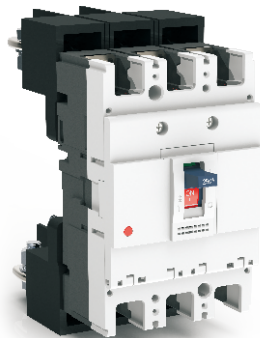
CS1型旋转操作手柄

Model CS1 rotary handle



安装于断路器产品上可用挂锁防止断路器闭合或分断

It is mounted on the circuit breaker and can be locked by padlock to prevent the making / breaking of circuit breaker



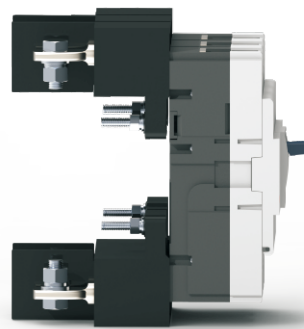
MDX型电动操作机构

MDX series electrical operating mechanism



MDX型用于 $I_{nm}=100A$ V800A的断路器

For circuit breaker: Model(AF) 100A-800A



UKM30 Series Moulded Case Circuit Breaker

系列塑料外壳式断路器

Cs1 series rotary operating mechanism

Cs1 型旋转操作机构

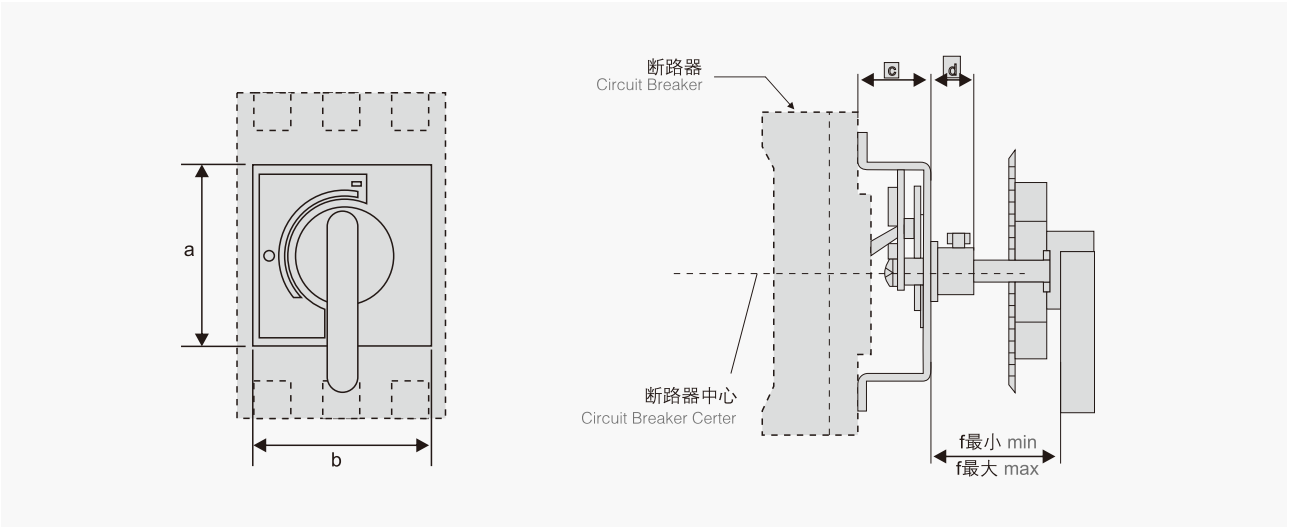
该操作机构采用齿轮一齿条机构推动断路器手柄，摩擦力小，操作轻松，使用寿命长。可选择A型（方形）操作手柄或B型（圆形）操作手柄。可用挂锁锁定手柄，防止断路器闭合或分断

The operating mechanism adopts gear-rack mechanism to drive the circuit breaker handle, with features of small friction, easy operation and long life. It can be locked by padlock to prevent making & breaking of circuit breaker.

型号 Model	壳架等级额定电流 Inm(A)	a	b	c	d	F最小 F min	F最大 F max
CS1-63	63	90	70	42	13.5	50	400
CS1-100	100	110	80	44	13.5	50	400
CS1-250	250	110	90	46	13.5	50	400
CS1-400	400	185	140	80	20	50	350
CS1-630,800	630,800	226	210	80	20	50	350
CS1-1250,1600	1250,1600	210	150	100	20	50	350

一般出厂方轴长f=150mm,如需其它长度，订货时注明

The general length of square shaft: f=150mm Other requirements, please specify when ordering.



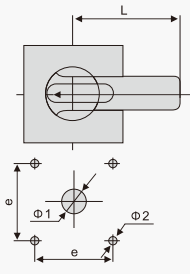
手柄的中心与铰链的距离不应小于200mm

The distance between the handle center and hinge should not be less than 200mm

A型手柄安装尺寸

Mounting size of A type handle

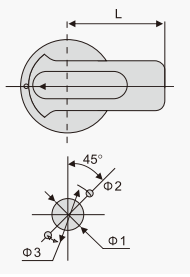
框架等级 Model (AF)	63~250	400~800	1250~1600
φ 1	φ 42	φ 63	φ 63
φ 2	φ 4.5	φ 5.5	φ 7.5
e	65	88	125*198
L	60	140	210



B型手柄安装尺寸

Mounting size of B type handle

框架等级 Model (AF)	63~250	400~800	1250~1600
φ 1	φ 33	φ 33	φ 50
φ 2	φ 4.5	φ 4.5	φ 7.5
φ 3	φ 53	φ 53	φ 53
L	65	125	155



UKM30 Series Moulded Case Circuit Breaker

系列塑料外壳式断路器

Electric operating mechanism

电动操作机构

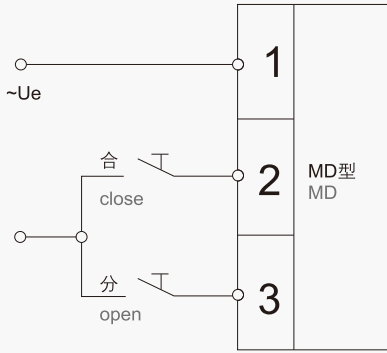
MD型电动操作机构由电磁铁拉动断路器的操作手柄，用来闭合和分断断路器。MDX型电动操作机构由电动机、齿轮和凸轮将电动机的旋转运动变为直线运动，用来闭合和分断断路器。

The MD series electrical operating mechanism is to make the electromagnet to drive the operating handle of the circuit breaker which is to close and open the circuit breaker. The MDX series electrical operating mechanism by motor, gear and cam turns the revolving morement of the motor into the beeline morement to close and open the circuit breaker.

Main technology parameter of MD series electrical operating mechanism

MD型电动操作机构主要技术参数

壳架等级额定电流 Inm(A)	100		250		MD型电动操作机构接线图 Wiring figureing of MD electrical operating mechanism
电动操作机构型号 Model	MD1		MD2		
交流额定工作电压Ue(V) AC rated working voltage Ue(V)	AC400V	AC230V	AC400V	AC230V	
起动电流(A) Starting current (A)	4.4	7.5	5.5	9.5	
动作时间(S) Operating time (S)	≤0.2				
额定操作频率(次/h) Rated operating frequency (time/n)	120				
机械寿命(次) Mechanical life	15000		9000		

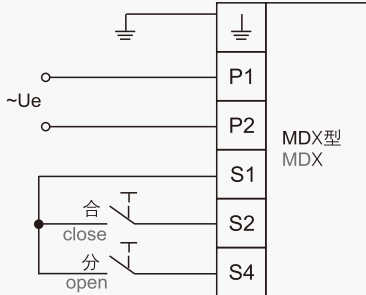


The diagram illustrates the electrical wiring for the MD type electrical operating mechanism. It features a three-phase supply labeled $\sim U_e$ connected to terminal 1. Terminal 2 is connected to a switch labeled '合' (close), and terminal 3 is connected to a switch labeled '分' (open). The unit is labeled 'MD型 MD'.

Main technology parameter of MDX series electrical operating mechanism

MDX型电动操作机构主要技术参数

壳架等级额定电流 Inm(A)	63	100	250	400	630 800	1250 1600	MDX 型电动操作机构接线图 Wiring figuring of MDX electrical operating mechanism
电动操作机构型号 Model	MDX0	MDX1	MDX2	MDX3	MDX4	MDX5	
交流额定工作电压Ue(V) AC rated working voltage Ue(V)	AC110~230V 50Hz DC110~220V						
起动电流(A) Starting current (A)	≤0.5			≤2		≤3	
动作时间(S) Operating time (S)	≤0.8						
额定操作频率(次/h) Rated operating frequency (time/h)	180			120		100	
机械寿命(次) Mechanical life	15000	15000	9000	5000	3000	2000	



UKM30 Series Moulded Case Circuit Breaker

系列塑料外壳式断路器

Definition of model

UKM30系列塑料外壳式断路器订货选型注解



Ordering notes

订货须知

1、型号

UKM30 □ - □□□ / □ - □□□□□□□□ 若接线方式为CH抽出式，则注明板前接线或板后接线。

2、分励、欠压脱扣器的额定电压

3、外部附件

旋转操作手柄型号（A型或B型）、方轴的长度及旋转操作手柄量；电动操作机构型号及额定电压、数量。

1. Model

UKM30□ - □□□ / □ - □□□□□□□□

With drawal connection or circuit breaker; when ordering, please specify it is front connection or rear connection;

2. Please indicate the rated voltage of shunt trip & Under-voltage trip.

3. External accessories

Please let us know the type of rotary handle A or B; the length of square shaft;

Model of electrical operating mechanism and its voltage & quantity;