

UKM5DC

系列光伏专用塑壳式断路器

Series Moulded Case Circuit Breaker For PV System

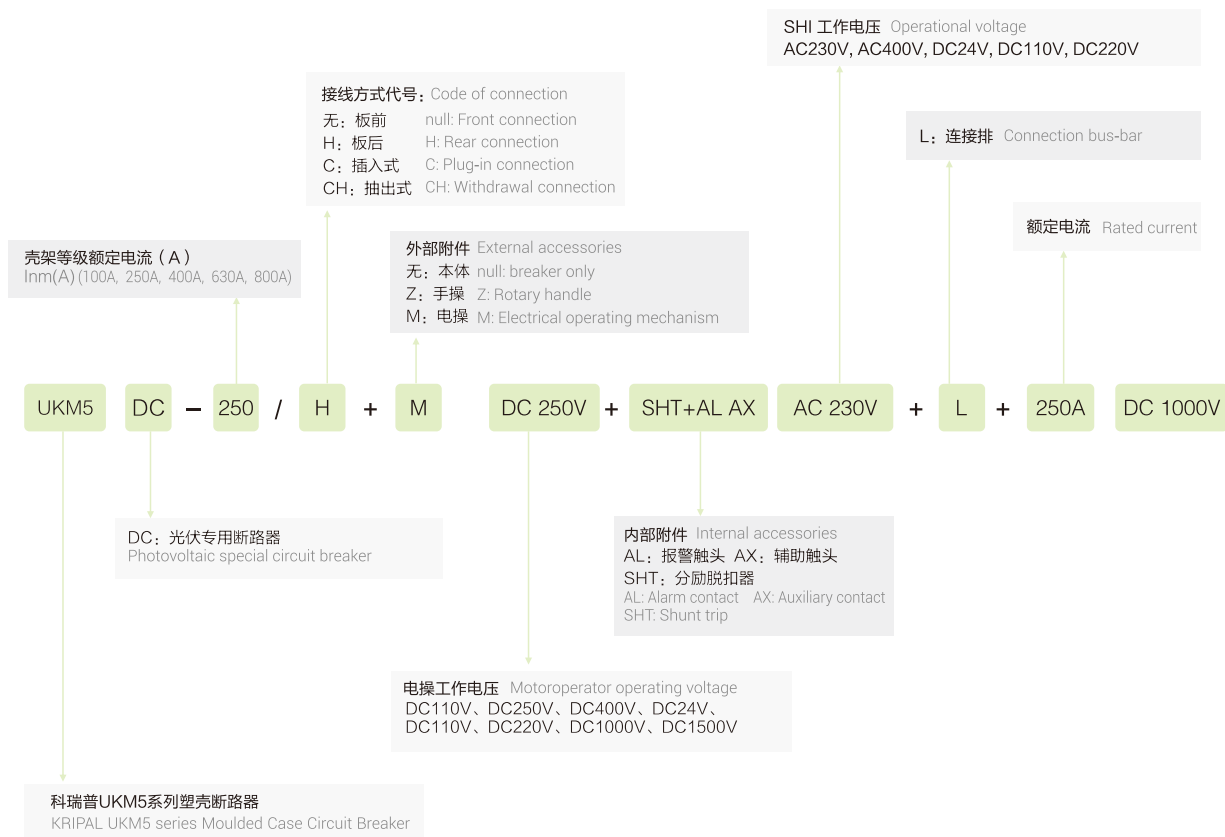


UKM5DC Series Moulded Case Circuit Breaker for PV System

系列光伏专用直流塑壳断路器

Definition of Model

型号编制含义



提示: 1、样本断路器图片中, 延长接线铜排为外短接连接排, 属处部附件。

2、如需符合UL 489B的产品请特殊注明。

Note: 1. The extended connection in pictures are "L" connection bus-bar (external accessories)

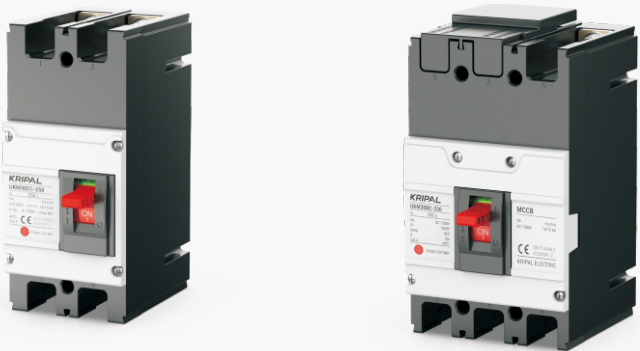
2. Please specify, if you need the items in line with the UL4998.

UKM5DC Series Moulded Case Circuit Breaker for PV System

系列光伏专用直流塑壳断路器

Main technical parameter

主要技术性能指标

产品型号 Model		UKM5DC-250	
外形 铜排为接线示意图 Photo			
壳架等级额定电流 Inm(A)		250	
极数 Poles		3	4
额定电流In(A) Rated current		100,125,150,175,200,225,250	
接线方式 Wiring		2进2出 input:2 lines; output:2 lines;	
额定工作电压Ue(V)DC Rated working voltage Ue VDC		1000	1500
额定绝缘电压Ui(V)DC Rated insulation voltage Ui(V)DC		1500	1500
额定冲击耐受电压Uimp(kV) Rated impulse withstand voltage		8	
测试电压一分钟(V) Testing voltage in one minute (V)		3820	3820
极限短路分断能力(kA)Icu(Ics=100% Icu) Ultimate short-circuit breaking capacity (kA) Icu		15	15
机械寿命 Mechanical life	总次数 total	7000	
电气寿命 Electrical life	总次数 total	2000	
总分断时间(ms) Total time of breaking (ms)		20	
安装位置 Mounting place		任何位置 any	
是否具有隔离特性 Isolation (Y/N)		是 Y	
标准 Standard		执行IEC 60947-2、GB/T 14048.2或UL489B IEC 60947 2 GB/T 14048.2 UL489B	
允许环境温度/℃ Ambient temperature / °C		-45~+70	
防护等级 Protection class		IP20	
可带附件 Accessories		辅助、报警、分励 Auxiliary contact,Alarm contact, Shunt trip,	
飞弧距离(mm) Arcing distance		≤50	
瞬时动作值 Instantaneous trip		7 In	
外形尺寸 Dimension	L × W × H	180x80x105	180x105x105
安装方式 Mounting		固定式 Fixed	

Load侧外接短接排断路器额定电流降容至90%

UKM5DC Series Moulded Case Circuit Breaker for PV System

系列光伏专用直流塑壳断路器

Main technical parameter

主要技术性能指标

产品型号 Model		UKM5DC-400/630	
外形 铜排为接线示意图 Photo			
壳架等级额定电流 Inm(A)		400/630	
极数 Poles		3	4
额定电流In(A) Rated current		250,300,350,400 (500,600)	
接线方式 Wiring		2进2出 input:2 lines; output:2 lines;	
额定工作电压Ue(V)DC Rated working voltage Ue VDC		1000	1500
额定绝缘电压Ui(V)DC Rated insulation voltage Ui(V)DC		1500	1500
额定冲击耐受电压Uimp(kV) Rated impulse withstand voltage		8	
测试电压一分钟(V) Testing voltage in one minute (V)		3820	3820
极限短路分断能力(kA)Icu(Ics=75% Icu) Ultimate short-circuit breaking capacity (kA) Icu		20	20
机械寿命 Mechanical life	总次数 total	4000	
电气寿命 Electrical life	总次数 total	1000	
总分断时间(ms) Total time of breaking (ms)		20	
安装位置 Mounting place		任何位置 any	
是否具有隔离特性 Isolation (Y/N)		是 Y	
标准 Standard		执行IEC 60947-2、GB/T 14048.2或UL489B IEC 60947 2 GB/T 14048.2 UL489B	
允许环境温度/℃ Ambient temperature / °C		-45~+70	
防护等级 Protection class		IP20	
可带附件 Accessories		辅助、报警、分励、手操、电操 Under-voltage trip, Auxiliary contact, Alarm contact, Shunt trip, Electrical operating mechanism, Rotary handle	
飞弧距离(mm) Arcing distance		≤100	
瞬时动作值 Instantaneous trip		7In	
外形尺寸 Dimension	L×W×H	257x150x103	257x198x103
安装方式 Mounting		固定式 Fixed	

Load侧外接短接排断路器额定电流降至90%

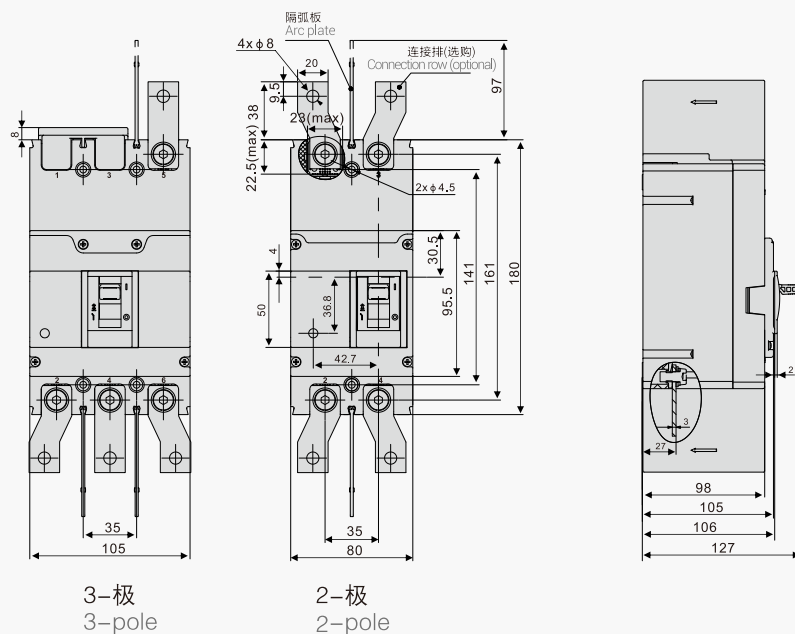
UKM5DC Series Moulded Case Circuit Breaker for PV System

系列光伏专用直流塑壳断路器

UKM5DC-250 Outline & Mounting Dimension

UKM5DC-250外形及安装尺寸

板前接线 (Front connection)



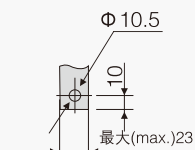
钻孔平面图 Drill plan

可使用导线尺寸:

Applicable conductor dimension

$I_n=100\sim175A$ 25~95mm²

$I_n=200\sim250A$ 70~120mm²

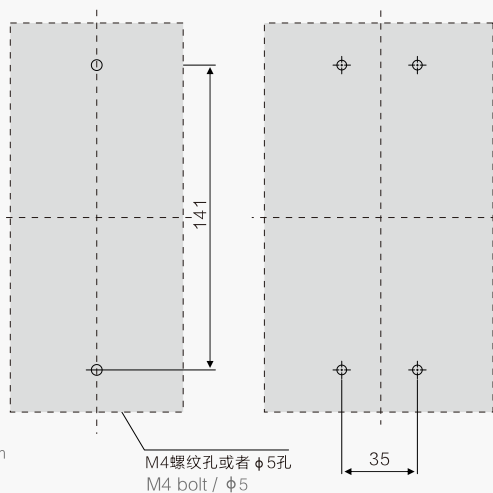


导体最大厚度=7

Thickness of conductor (max.): 7mm

导体钻孔用于直接连接

Drilled hole for direction connection



UKM5DC Series Moulded Case Circuit Breaker for PV System

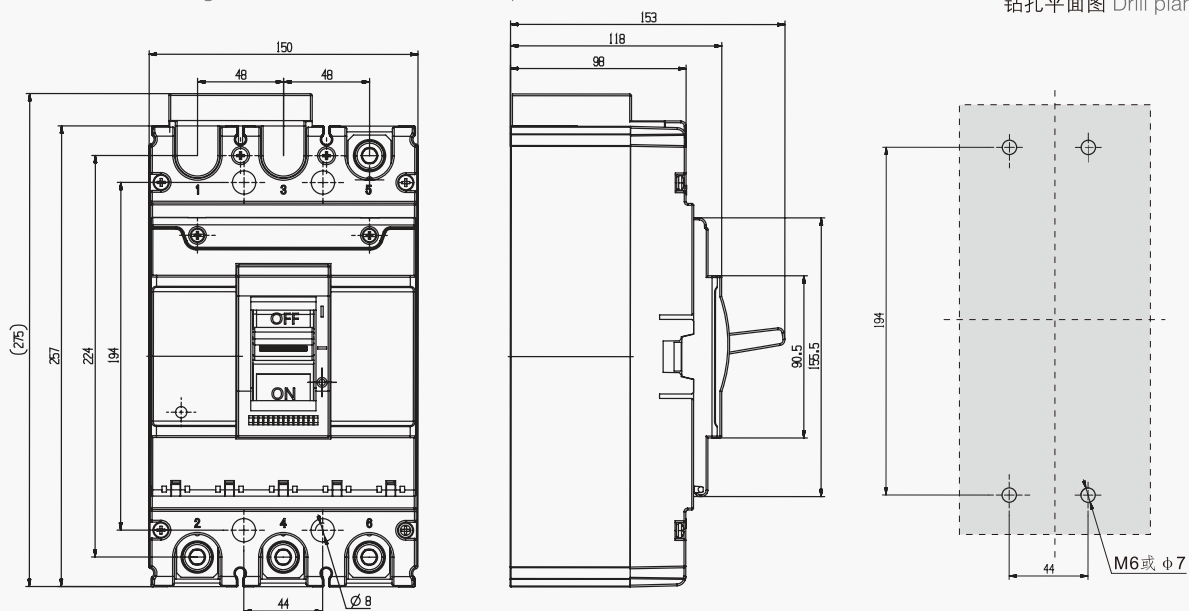
系列光伏专用直流塑壳断路器

UKM5DC-400/630 Outline & Mounting Dimension

UKM5DC-400/630 外形及安装尺寸

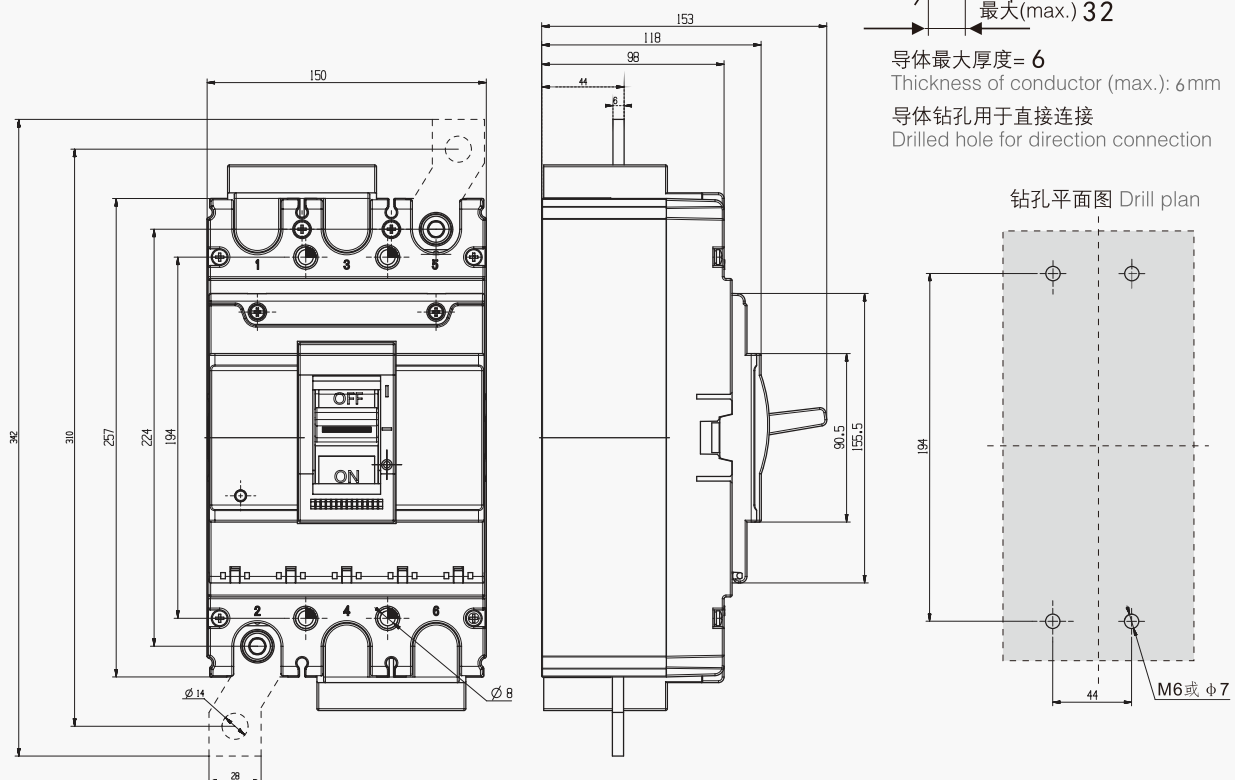
带短接排板前接线(3极) (图示1)

Front wiring with short circuit board(3 poles)



带短接排板前接线(3极) (图示2)

Front wiring with short circuit board(3 poles)

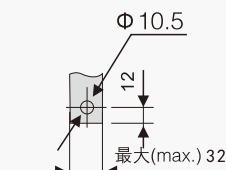
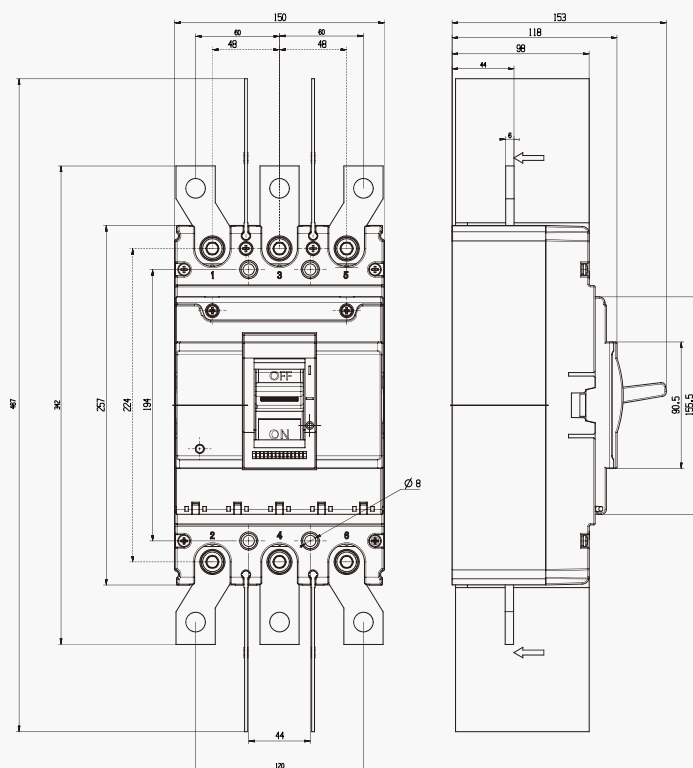


系列光伏专用直流塑壳断路器

UKM5DC-400/630 外形及安装尺寸

Technical drawing of a rectangular plate with dimensions and mounting holes. The plate has a width of 44 and a height of 60. There are four mounting holes, each with a diameter of $\phi 7$. The holes are arranged in a 2x2 grid. The distance between the centers of the holes in the horizontal direction is 44, and the distance in the vertical direction is 60. The mounting holes are labeled M6 or $\phi 7$.

Front wiring with external wiring board(3 poles)



Thickness of conductor (max.): 6 mm

Drilled hole for direction connection

Technical drawing of a rectangular plate with the following specifications:

- Overall width: 194
- Overall height: 194
- Four mounting holes arranged in a 2x2 grid.
- Distance between the centers of the holes in both horizontal and vertical directions: 44.
- Mounting hole specification: M6 或 $\phi 7$.

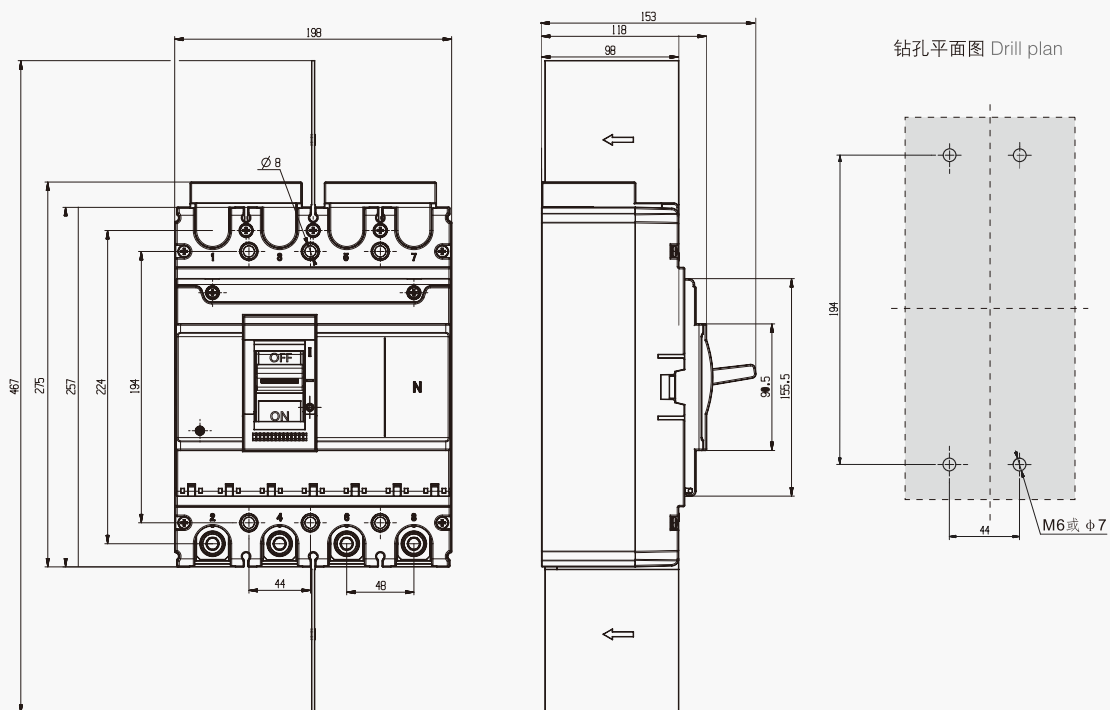
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系列光伏专用直流塑壳断路器

UKM5DC-400/630 Outline & Mounting Dimension

UKM5DC-400/630 外形及安装尺寸

带短接排板前接线(4极) (图示1) Front wiring with short circuit board (4 poles)



带短接排板前接线(4极) (图示2)
Front wiring with short circuit board (4 poles)

