

TWOMASTER



TWOMASTER PV
PV Load Break Switches
80-1250A
1000-1500VDC

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PV Load Break Switches

80-1250A / 1000-1500VDC

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The solution for

- Combiner box
- Recombiner box
- Inverter

Compliance with standards

- IEC 60947-3
- IEC 60947-1
- GB/T14048.1-2006
- GB/T14048.3-2008

Approvals and certifications

China Quality Certification Centre



Products Description

TWOMASTER PV series switch-disconnector is using the modular concept. The switch body adopts the special module assembly and the new appearance design to reduce the exposed metal parts of the switch body and improve the safety operating performance of the switch. The modular design facilitates the assembly and disassembly of the switch, and is suitable for different use requirements and occasions.

TWOMASTER PV series switch-disconnector is fit for AC 50/60Hz. Its rated working voltages are AC380V, AC690V, AC800V, AC1000V, DC1000V, DC1500V and the rated working current of 80A-1250A in the low-voltage distribution network can meet the loaded power-on and break the corresponding rated current, at the same time, it can also endure the overload current in the circuit in a short time.

TWOMASTER PV series switch-disconnector can be used for main power switches, isolating inspection switches and emergency stop switches of building construction, power, photovoltaic and petrochemical industries and factories, etc.

Compliance standards

National standards

GB/T 14048.1 Low-voltage Switchgear and Controlgear-General Rules

GB/T 14048.3 Low-voltage Switchgear and Controlgear -Switches, Disconnectors, Switch-disconnectors and Fuse-combination Units

International standards

IEC 60947-1 Low-voltage Switchgear and Controlgear- General Rules

IEC 60947-3 Low-voltage Switchgear and Controlgear -Switches, Disconnectors, Switch-disconnectors and Fuse-combination Units
Equipment Certification

PV series switch-disconnector has passed CCC, RoHS and CE standard certifications.

Product Code

TWOMASTER-PV 1500VDC Load Break Switch					
Rating (A)	Product Code	No. of poles	Direct handle	External handle & Shaft	Auxiliary contact
125	33302012	2 Pole	included	33300001	33300022 (1NA/1NK) 33300044 (2NA/2NK)
160	33302016	2 Pole			
250	33302025	2 Pole			
400	33302040	2 Pole			
630	33304063	4 Pole			
800	33304080	4 Pole			
1000	33304100	4 Pole			
1250	33308120	8 Pole			

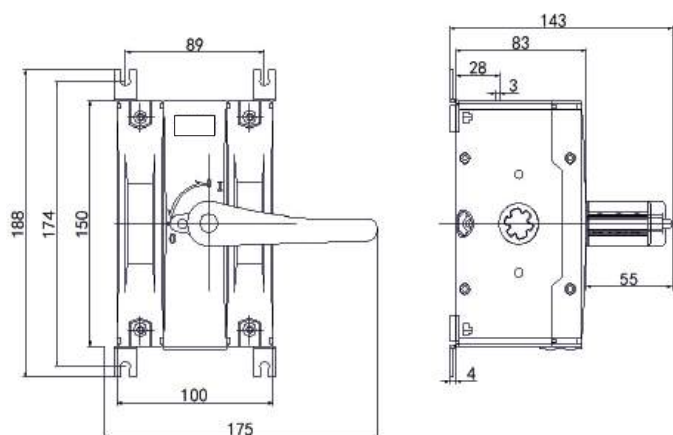
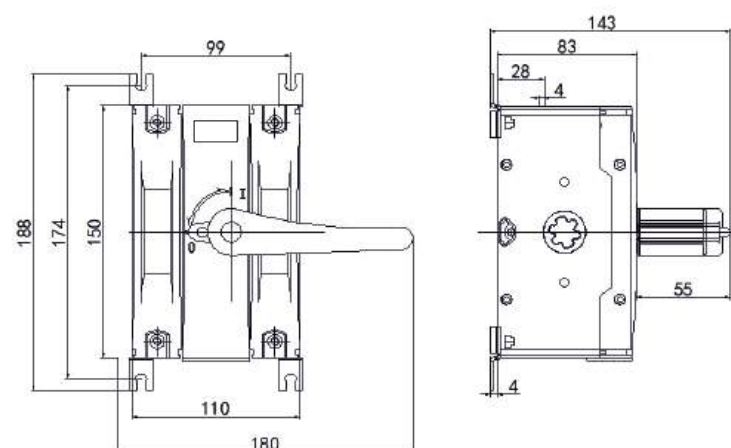
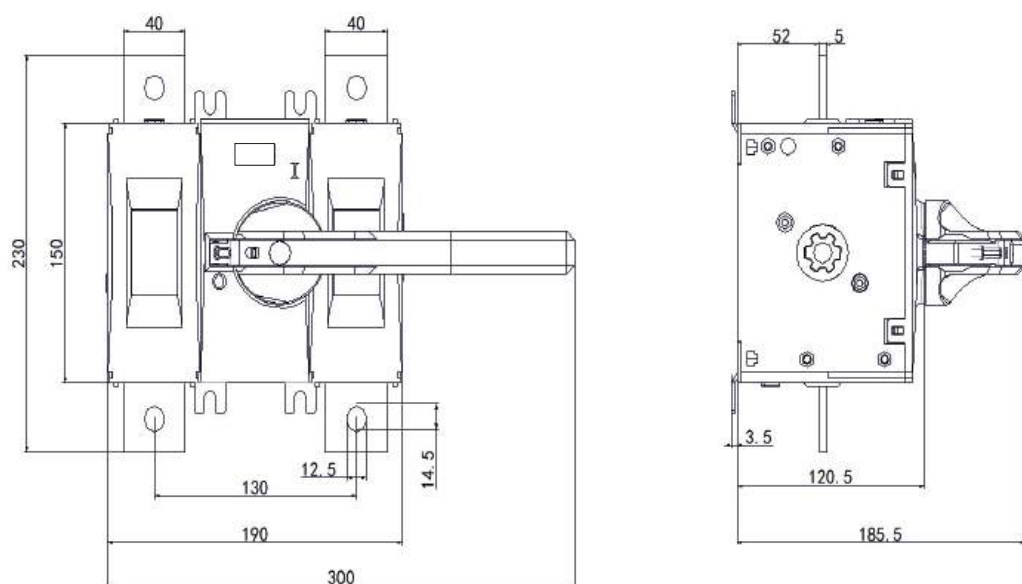
TWOMASTER-PV 1000VDC Load Break Switch					
Rating (A)	Product Code	No. of poles	Direct handle	External handle & Shaft	Auxiliary contact
125	33402012	2 Pole	included	33400001	33400022 (1NA/1NK) 33400044 (2NA/2NK)
160	33402016	2 Pole			
250	33402025	2 Pole		33400002	
400	33402040	2 Pole			
630	33404063	4 Pole		33400003	
800	33404080	4 Pole			
1000	33404100	4 Pole			
1250	33408120	8 Pole			

TWOMASTER PV**TWOMASTER****PV Load Break Switches****80-1250A / 1000-1500VDC****Technical Parameter**

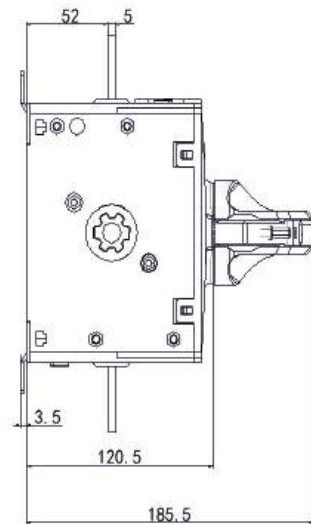
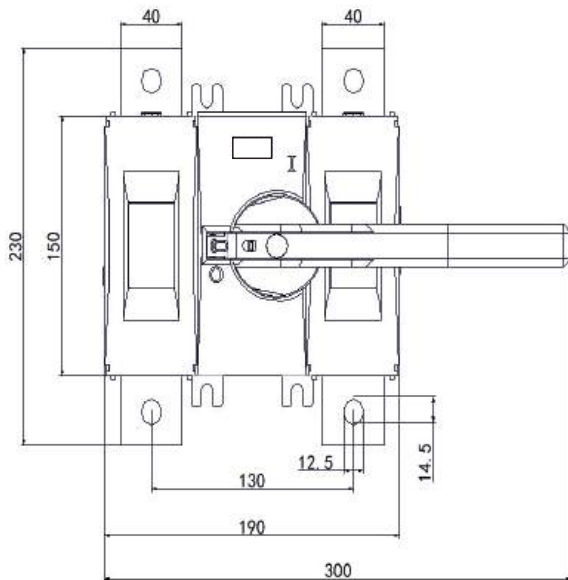
Conventional thermal current (A)		160	250	630	1250
Rated operating voltage (V)		DC1000 DC1500		DC1000 DC1500	
Rated operating current (A)		80,100,125,160	200,250	315,400,500,630	800,1000,1250
Number of poles		2P/3P/4P			
Rated impulse withstand voltage Uimp (kV)		12			
Rated insulation voltage Ui (V)		1500			
Usage category	DC1000V	DC -PV2(2P)	DC -PV2(2P)	DC -PV2(2P)	DC -PV1(2P)
	DC1500V	DC -21 B(3P) DC -PV2(4P)	DC -21 B(3P) DC -PV2(4P)	DC -21 B(3P) DC -PV2(4P)	DC -21A(3P) DC -PV1(4P)
Rated short circuit making capability Icm (kA peak)	DC 1500V	5	7	10	40
Rated short-time withstand current Icw	DC 1500V	10kA/1s	10kA/1s	20kA/1s	40kA/1s
Mechanical life (times)		7800	7800	4800	2900
Electrical life (times)		200	200	200	100
Tightening torque with terminal (Nm)		15-22	15-22	50-75	50-75
Operating altitude		<2000 m			
Operating temperature		-45°C - + 70°C			
Pollution level		Level 3			
Protection level		IP20			
Weight(kg)	3 poles	1.7	1.9	6.5	15.8
	4 poles	2.3	2.5	7.7	19.3

Technical Parameter

Conventional thermal current (A)		500
Rated operating voltage (V)		DC1500
Rated operating current (A)		200 250 315 400 500
Number of poles		2P
Rated impulse withstand voltage Uimp		12
Rated insulation voltage Ui (V)		1500
Usage category	DC 1500V	DC-PV2
Rated short circuit making capability Icm (kA peak)	DC 1500V	10
Rated shorttime withstand current Icw	DC 1500V	10kA/1s
Mechanical life (times)		4800
Electrical life (times)		200
Tightening torque with terminal (Nm)		50-75
Operating altitude		<2000 m
Operating temperature		-45°C- + 70°C
Pollution level		Level 3
Protection level		IP20
Weight(kg)	2 poles	6.6

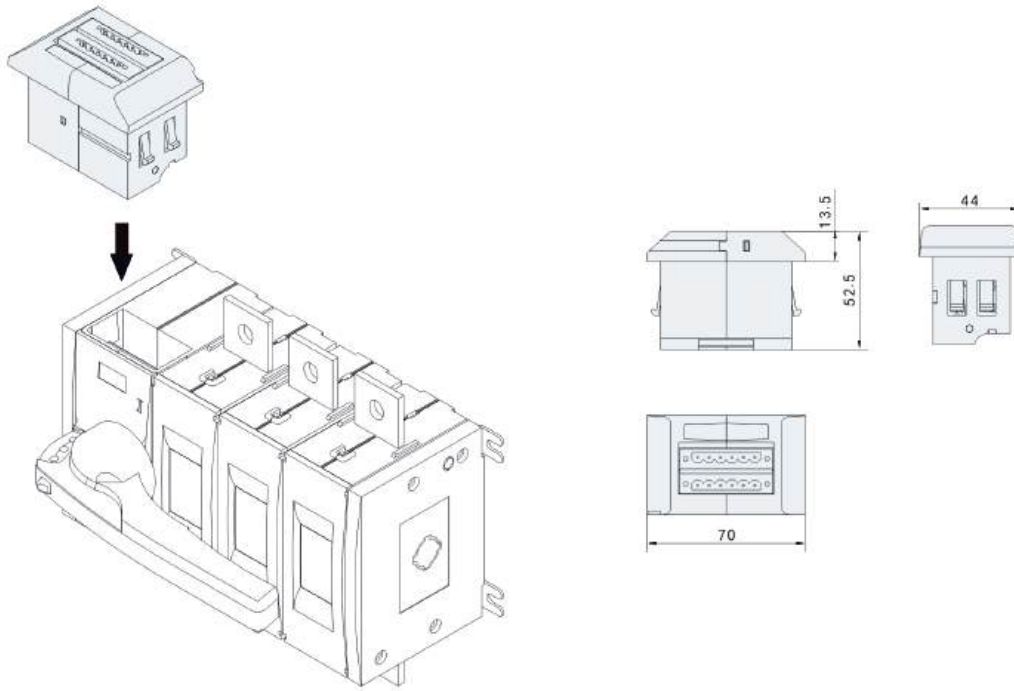
TWOMASTER PV**PV Load Break Switches****80-1250A / 1000-1500VDC****TWOMASTER****Dimensions****1000VDC / 160A / 2P****1000VDC / 250A / 2P****1000VDC / 315...630A / 2P**

1500VDC / 200...500A / 2P



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80-1250A / 1000-1500VDC**TWOMASTER****Dimensions**

Dimensions

