BYSS.1 DC ISOLATOR SWITCHES

ZBENY



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BYSS.2 DC ISOLATOR SWITCHES

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IEC/EN 60947-3:2015

1 Brand

2 Type

3 OFF

8 ON

9 Knob

4 Application

5 Insulation voltage

7 Rated Current

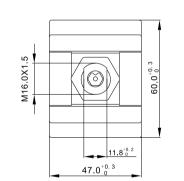
6 Rated impulse withstand voltage

7BENY BYSS Series DC disconnect switch is used in 1-200KW solar long worklife and short arting time. For Multiple independent MPPTs.

Appearance Introduction

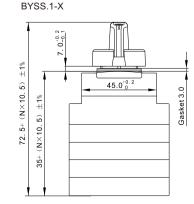


Dimensions(mm)





PANEL CUTOUT

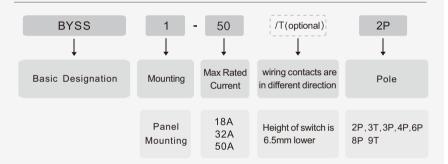


Application

inverter, 2P for 1 load up to 1000V 50A or 1500V 25A. low temperaturerising,



Type Instruction



Parameter

Electrical Characteristics Rated Working Voltage Rated Current Ie Details in diagram Conventional free air thermal current Ith 50A Rated impulse withstand voltage Uimp Rated short-time withstand current (1s) Rated short-circuit making capacity Rated conditional short-circuit current(kA) Rated short-time withstand current (a.) Box 2.0kA Rated short-time withstand current(kA) BkA Installation Environment Utiizatin category DC Number of cycles of operation(With current) DC-21B、DC-PV2 Number of cycles of operation(With current) 10000 Pole 2/3/4/6/8/9 Mounting Panel Mounting Tightening torque terminal screws M4, min max.M4 1.2Nm 1.8Nm Tightening torque panel mounting nut,minmax 3.0Nm 3.5Nm Ambient temperature allowed between -40°C ~ +85°C Storage temperature allowed between -40°C ~ +85°C Relative Humidity 90% Pollution degree 2 IP rating terminals	i arameter					
Rated Current Ie Details in diagram Conventional free air thermal current Ith 50A Rated impulse withstand voltage Uimp 8kV Rated short-time withstand current (1s) Icw 1.5kA Rated short-circuit making capacity Icm 2.0kA Rated conditional short-circuit current(kA) 8kA Installation Environment Utiizatin category DC DC-21B、DC-PV2 Number of cycles of operation(With current) 500~2000 Number of cycles of operation(Without current) 10000 Pole 2/3/4/6/8/9 Mounting Panel Mounting Tightening torque terminal screws M4, min max.M4 1.2Nm 1.8Nm Tightening torque panel mounting nut,minmax 3.0Nm 3.5Nm Ambient temperature allowed between -40°C ~ +85°C Storage temperature allowed between 20% Pollution degree 2	Electrical Characteristics					
Conventional free air thermal current Ith 50A Rated impulse withstand voltage Uimp 8kV Rated short-time withstand current (1s) Icw 1.5kA Rated short-circuit making capacity Icm 2.0kA Rated conditional short-circuit current(kA) 8kA Installation Environment Utiizatin category DC DC-21B、DC-PV2 Number of cycles of operation(With current) 500~2000 Number of cycles of operation(Without current) 10000 Pole 2/3/4/6/8/9 Mounting Panel Mounting Tightening torque terminal screws M4 , min max.M4 1.2Nm 1.8Nm Tightening torque panel mounting nut,minmax 3.0Nm 3.5Nm Ambient temperature allowed between -40°C ~ +85°C Storage temperature allowed between -40°C ~ +85°C Relative Humidity 90% Pollution degree 2	Rated Working Voltage	Ue		Details in diagram		
Rated impulse withstand voltage Rated short-time withstand current (1s) Rated short-circuit making capacity Rated conditional short-circuit current(kA) Rated short-circuit making capacity Rated short-direction (Wall conditional short-circuit current) By C-20kA Rated short-direction (Wall conditional short-circuit current) By C-21B, DC-PV2 Number of cycles of operation(With current) 10000 Pole 2/3/4/6/8/9 Mounting Panel Mounting Tightening torque terminal screws M4, min max.M4 1.2Nm 1.8Nm Tightening torque panel mounting nut,minmax 3.0Nm 3.5Nm Ambient temperature allowed between -40°C ~ +85°C Storage temperature allowed between -40°C ~ +85°C Relative Humidity 90% Pollution degree	Rated Current	le	Details in diagram			
Rated short-time withstand current (1s) Icw 1.5kA Rated short-circuit making capacity Icm 2.0kA Rated conditional short-circuit current(kA) 8kA Installation Environment Utiizatin category DC DC-21B、DC-PV2 Number of cycles of operation(With current) 500~2000 Number of cycles of operation(Without current) 10000 Pole 2/3/4/6/8/9 Mounting Panel Mounting Tightening torque terminal screws M4 , min max.M4 1.2Nm 1.8Nm Tightening torque panel mounting nut,minmax 3.0Nm 3.5Nm Ambient temperature allowed between -40°C ~ +85°C Storage temperature allowed between -40°C ~ +85°C Relative Humidity 90% Pollution degree 2	Conventional free air thermal current	Ith	50A			
Rated short-circuit making capacity Icm 2.0kA Rated conditional short-circuit current(kA) 8kA Installation Environment Utiizatin category DC DC-21B、DC-PV2 Number of cycles of operation(With current) 500~2000 Number of cycles of operation(Without current) 10000 Pole 2/3/4/6/8/9 Mounting Panel Mounting Tightening torque terminal screws M4 , min max.M4 1.2Nm 1.8Nm Tightening torque panel mounting nut,minmax 3.0Nm 3.5Nm Ambient temperature allowed between -40°C ~ +85°C Storage temperature allowed between -40°C ~ +85°C Relative Humidity 90% Pollution degree 2	Rated impulse withstand voltage	Uimp		8kV		
Rated conditional short-circuit current(kA) Installation Environment Utiizatin category DC Number of cycles of operation(With current) Pole 2/3/4/6/8/9 Mounting Tightening torque terminal screws M4 , min max.M4 Tightening torque panel mounting nut,minmax Ambient temperature allowed between Storage temperature allowed between Relative Humidity Pollution degree BC-21B、DC-PV2 DC-21B、DC-PV2 Number of cycles of operation(Without current) 10000 2/3/4/6/8/9 Panel Mounting 1.8Nm 1.8Nm 3.5Nm -40°C ~ +85°C Relative Humidity 90% Pollution degree	Rated short-time withstand current (1s)	Icw		1.5kA		
Installation Environment Utilizatin category DC DC-21B、DC-PV2 Number of cycles of operation(With current) 500~2000 Number of cycles of operation(Without current) 10000 Pole 2/3/4/6/8/9 Mounting Panel Mounting Tightening torque terminal screws M4, min max.M4 1.2Nm 1.8Nm Tightening torque panel mounting nut,minmax 3.0Nm 3.5Nm Ambient temperature allowed between -40°C ~ +85°C Storage temperature allowed between -40°C ~ +85°C Relative Humidity 90% Pollution degree 2	Rated short-circuit making capacity	Icm		2.0kA		
Utilizatin category DC DC-21B、DC-PV2 Number of cycles of operation(With current) 500~2000 Number of cycles of operation(Without current) 10000 Pole 2/3/4/6/8/9 Mounting Panel Mounting Tightening torque terminal screws M4 , min max.M4 1.2Nm 1.8Nm Tightening torque panel mounting nut,minmax 3.0Nm 3.5Nm Ambient temperature allowed between -40°C ~ +85°C Storage temperature allowed between -40°C ~ +85°C Relative Humidity 90% Pollution degree 2	Rated conditional short-circuit current(kA)			8kA		
Number of cycles of operation(With current) 500~2000 Number of cycles of operation(Without current) 10000 Pole 2/3/4/6/8/9 Mounting Panel Mounting Tightening torque terminal screws M4 , min max.M4 1.2Nm 1.8Nm Tightening torque panel mounting nut,minmax 3.0Nm 3.5Nm Ambient temperature allowed between -40°C ~ +85°C Storage temperature allowed between -40°C ~ +85°C Relative Humidity 90% Pollution degree 2	Installation Environment					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Utiizatin category DC	DC-21B、DC-PV2				
Pole 2/3/4/6/8/9 Mounting Panel Mounting Tightening torque terminal screws M4 , min max.M4 1.2Nm 1.8Nm Tightening torque panel mounting nut,minmax 3.0Nm 3.5Nm Ambient temperature allowed between -40°C ~ +85°C Storage temperature allowed between -40°C ~ +85°C Relative Humidity 90% Pollution degree 2	Number of cycles of operation(With current	500~2000				
Mounting Tightening torque terminal screws M4 , min max.M4 Tightening torque panel mounting nut,minmax 3.0Nm Ambient temperature allowed between -40°C ~ +85°C Storage temperature allowed between -40°C ~ +85°C Relative Humidity 90% Pollution degree 2	Number of cycles of operation(Without curr	10000				
Tightening torque terminal screws M4 , min max.M4 Tightening torque panel mounting nut,minmax 3.0Nm 3.5Nm Ambient temperature allowed between -40°C ~ +85°C Storage temperature allowed between Relative Humidity 90% Pollution degree 2	Pole		2/3/4/6/8/9			
Tightening torque panel mounting nut,minmax 3.0Nm 3.5Nm Ambient temperature allowed between -40°C ~ +85°C Storage temperature allowed between -40°C ~ +85°C Relative Humidity 90% Pollution degree 2	Mounting			Panel Mounting		
Ambient temperature allowed between $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ Storage temperature allowed between $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ Relative Humidity 90% Pollution degree 2	Tightening torque terminal screws M4 , min	max.M4	1.2Nm	1.8Nm		
Storage temperature allowed between $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ Relative Humidity 90% Pollution degree 2	Tightening torque panel mounting nut,min.	3.0Nm	3.5Nm			
Relative Humidity 90% Pollution degree 2	Ambient temperature allowed between	-40°C ~ +85°C				
Pollution degree 2	Storage temperature allowed between	-40°C ~ +85°C				
	Relative Humidity	90%				
IP rating terminals IP66	Pollution degree			2		
	IP rating terminals			IP66		

Wiring Diagram

	Туре	Contact Configuration		I			Poles in series	Number of Strings	
		Comiguration	800V	1000V	1200V	1500V	III Series	orotrings	
	BYSS.1-18-2P	1 3	25A	18A	15A	10A	2	1	
	BYSS.1-32-2P		40A	32A	25A	16A	2	1	
a City	BYSS.1-50-2P	2 4	50A	50A	40A	25A	2	1	
	BYSS.1-32-3P	1 3 5	25A	20A	16A		2	2	
	BYSS.1-50-3P	2 4 6	32A	25A	20A	13A	2	2	
	BYSS.1-50-3T	1 3 5			50A	40A	3	1	
	BYSS.1-18-4P	1 3 5 7	25A	18A	15A	10A	2	2	
	BYSS.1-32-4P	2 4 6 8	40A	32A	25A	16A	2	2	
	BYSS.1-50-4P	2 4 0 0	50A	50A	40A	25A	2	2	
	BYSS.1-18-6P	1 3 5 7 9 11	25A	18A	15A	10A	2	3	
BEG	BYSS.1-32-6P	1 1 1 1 1	40A	32A	25A	16A	2	3	
1	BYSS.1-50-6P	2 4 6 8 10 12	50A	50A	40A	25A	2	3	
	BYSS.1-50-6T	1 3 5 7 9 11			50A	40A	3	2	
	BYSS.1-18-8P	1 3 5 7 9 11 13 15	25A	18A	15A	10A	2	4	
11 11 11 11 11 11 11 11 11 11 11 11 11	BYSS.1-32-8P	7 4 4 4 4 4 4 4 4	40A	32A	25A	16A	2	4	
	BYSS.1-50-8P	2 4 6 8 10 12 14 16	50A	50A	40A	25A	2	4	
The state of the s	BYSS.1-50-9T	1 3 5 7 9 11 13 15 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			50A	40A	3	3	

Switching Configurations

Туре	2P	3P	3Т	4P	6P	6Т	8P	9Т
Contacts Wiring diagram	1 3	1 3 5	1 3 5	1 3 5 7	1 3 5 7 9 11	1 3 5 7 9 11	1 3 5 7 9 11 13 15	1 3 5 7 9 11 13 15 17
Switching example	† -	+ - +	+ = ~	† - † -	† - † - † - † - † - † - † - † - † - † -			

BYSS.2 series DC ISOLATOR SWITCHES

IEC/EN 60947-3:2015

1 Brand

2 Type

3 OFF

8 ON

9 Knob

4 Application

5 Insulation voltage

7 Rated Current

6 Rated impulse withstand voltage

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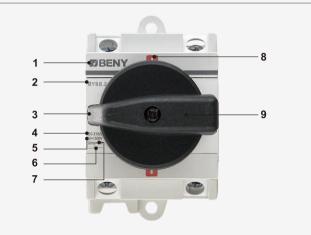


Application

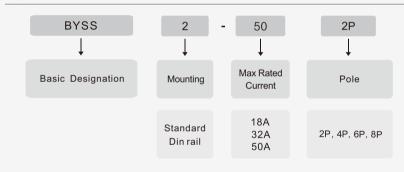
ZBENY BYSS Series DC disconnect switch is used in 1-200KW solar inverter, 2P for 1 load up to 1000V 50A or 1500V 25A. low temperaturerising, long worklife and short arting time. For Multiple independent MPPTs.

ZBENY

Appearance Introduction



Type Instruction



Parameter

Electrical Characteristics					
Rated Working Voltage	Ue		Details in diagram		
Rated Current	le	Details in diagram			
Conventional free air thermal current		50A			
Rated impulse withstand voltage	8kV				
Rated short-time withstand current (1s)	Icw	1.5kA			
Rated short-circuit making capacity	Icm		2.0kA		
Rated conditional short-circuit current(kA))		8kA		
Installation Environment					
Utiizatin category DC	DC-21B、DC-PV2				
Number of cycles of operation(With curren	500~2000				
Number of cycles of operation(Without cur	10000				
Pole	2/3/4/6/8/9				
Mounting		Standard Din rail			
Tightening torque terminal screws M4 , mir	3.0Nm	3.5Nm			
Tightening torque panel mounting nut, min.	max	0.5Nm	0.7Nm		
Ambient temperature allowed between		-40°C ~ +85°C			
Storage temperature allowed between	-40°C ~ +85°C				
Relative Humidity	90%				
Pollution degree	2				
IP rating terminals	IP66				

Wiring Diagram

	T	Contact			Poles	Numb		
	Туре	Configuration	800V	1000V	1200V	1500V	in series	of Stri
	BYSS.2-18-2P	1 3	25A	18A	15A	10A	2	1
	BYSS.2-32-2P	<u> </u>	40A	32A	25A	16A	2	1
	BYSS.2-50-2P	2 4	50A	50A	40A	25A	2	1
	BYSS.2-18-4P	1 3 5 7	25A	18A	15A	10A	2	2
21 12	BYSS.2-32-4P	1 + + - 1	40A	32A	25A	16A	2	2
	BYSS.2-50-4P	2 4 6 8	50A	50A	40A	25A	2	2
0.11.5	BYSS.2-18-6P	1 3 5 7 9 11	25A	18A	15A	10A	2	3
	BYSS.2-32-6P		40A	32A	25A	16A	2	3
	BYSS.2-50-6P		50A	50A	40A	25A	2	3
	BYSS.2-50-6T	1 3 5 7 9 11			50A	40A	3	2
BYSS.2	BYSS.2-18-8P	1 3 5 7 9 1113 15	25A	18A	15A	10A	2	4
	BYSS.2-32-8P		40A	32A	25A	16A	2	4
	BYSS.2-50-8P	2 4 6 8 10 12 14 16	50A	50A	40A	25A	2	4

Switching Configurations

Туре	2P	3P	3Т	4P	6P	6Т	8P	9Т
Contacts Wiring diagram	1 3	1 3 5	1 3 5	1 3 5 7	1 3 5 7 9 11 1 1 1 2 4 6 8 10 12	1 3 5 7 9 11	1 3 5 7 9 111315	1 3 5 7 9 11 13 15 17
Switching example	+	+ - +	+ = ~	+ - + -		+ = + = =		

Dimensions(mm)

