

BYSS.1

Series DC Isolator Switches

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BYSS.1 Series

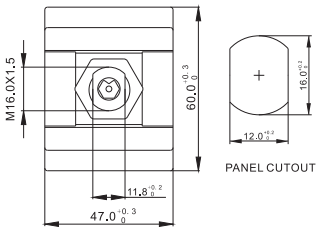
DC Isolator Switches



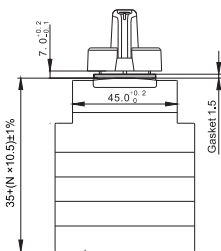
IEC/EN 60947-3:2015

- 1 Brand
- 2 Type
- 3 OFF
- 4 Application
- 5 Insulation voltage
- 6 Rated impulse withstand voltage
- 7 Rated Current
- 8 ON
- 9 Knob

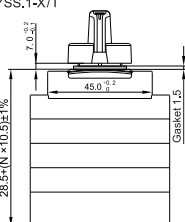
Dimensions(mm)



BYSS.1-X



BYSS.1-X/T



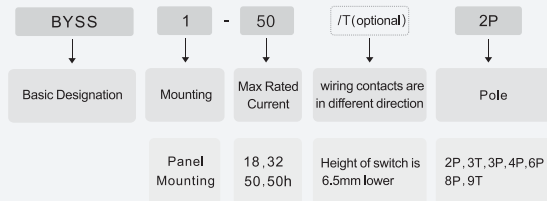
Application

ZBENY BYSS Series DC disconnect switch is used in 1-200KW solar inverter, 2P for 1 load up to 1200V 50A or 1600V 16A. low temperature rising, long worklife and short arcing time. For Multiple independent MPPTs.

Appearance Introduction



Type Instruction



Parameter

| Electrical Characteristics | | |
|---|------|---|
| Rated Working Voltage | Ue | Details in diagram |
| Rated Current | Ie | Details in diagram |
| Conventional free air thermal current | Ith | 50A 60A(50h) |
| 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 | | |
| Utilizin category DC | | DC-PV2 |
| Number of cycles of operation(with current) | | 300 |
| Number of cycles of operation(without current) | | 10000 |
| Operation rate | | 120/h |
| Pole | | 2/3/4/6/8/9 |
| Mounting | | Panel mounting |
| Tightening torque terminal screws M4, min.-max. | | 1.2N·m~1.8N·m |
| Tightening torque panel mounting nut, min.-max. | | 2.5N·m±0.1N·m |
| Tightening torque M3 screw in the knob, min.-max. | | 0.5N·m~0.7N·m |
| 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 | | IP20 |
| IP rating panel | | IP66 |
| Wiring rating | | 14 AWG-8 AWG, Stranded 2,5mm ² ~10,0mm ² |

Wiring Diagram

| | Type | Contact Configuration | | | | | | | | | Poles in series | Number of Strings | |
|--|---------------|-----------------------|------|-------|-------|-------|-------|-------|-------|-------|-----------------|-------------------|---|
| | | | 800V | 1000V | 1100V | 1200V | 1350V | 1400V | 1500V | 1600V | | | |
| | BYSS.1-18 2P | | 25A | 18A | | 15A | | | | | | 2 | 1 |
| | BYSS.1-32 2P | | 40A | 32A | | 25A | | | | | | 2 | 1 |
| | BYSS.1-50 2P | | 50A | 50A | | 40A | | | 16A | | | 2 | 1 |
| | BYSS.1-50h 2P | | | | 60A | 50A | 40A | 35A | 30A | 16A | | 2 | 1 |
| | BYSS.1-32-3P | | 25A | 20A | | 16A | | | | | | 2 | 2 |
| | BYSS.1-50-3P | | 32A | 25A | | 20A | | | | | | 2 | 2 |
| | BYSS.1-50 3T | | | | | 50A | | | 40A | | | 3 | 1 |
| | BYSS.1-18 4P | | 25A | 18A | | 15A | | | | | | 2 | 2 |
| | BYSS.1-32 4P | | 40A | 32A | | 25A | | | | | 2 | 2 | |
| | BYSS.1-50 4P | | 50A | 50A | | 40A | | | 16A | | 2 | 2 | |
| | BYSS.1-50h 4P | | | | 60A | 50A | 40A | 35A | 30A | 16A | 2 | 2 | |
| | BYSS.1-18 6P | | 25A | 18A | | 15A | | | | | | 2 | 3 |
| | BYSS.1-32 6P | | 40A | 32A | | 25A | | | | | 2 | 3 | |
| | BYSS.1-50 6P | | 50A | 50A | | 40A | | | 16A | | 2 | 3 | |
| | BYSS.1-50h 6P | | | | 60A | 50A | 40A | 35A | 30A | 16A | 2 | 3 | |
| | BYSS.1-50 6T | | | | | 50A | | | 40A | | 3 | 2 | |
| | BYSS.1-18 8P | | 25A | 18A | | 15A | | | | | | 2 | 4 |
| | BYSS.1-32 8P | | 40A | 32A | | 25A | | | | | 2 | 4 | |
| | BYSS.1-50 8P | | 50A | 50A | | 40A | | | 16A | | 2 | 4 | |
| | BYSS.1-50h 8P | | | | 60A | 50A | 40A | 35A | 30A | 16A | 2 | 4 | |
| | BYSS.1-50 9T | | | | | 50A | | | 40A | | 3 | 3 | |

Switching Configurations

| Type | 2P | 3P | 3T | 4P | 6P | 6T | 8P | 9T |
|-------------------------|----|----|----|----|----|----|----|----|
| Contacts Wiring diagram | | | | | | | | |
| Switching example | | | | | | | | |

BYSS.2

Series DC Isolator Switches

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BYSS.2 Series DC Isolator Switches

ZBENY



IEC/EN 60947-3:2015

- 1 Brand
- 2 Type
- 3 OFF
- 4 Application
- 5 Insulation voltage
- 6 Rated impulse withstand voltage
- 7 Rated Current
- 8 ON
- 9 Knob

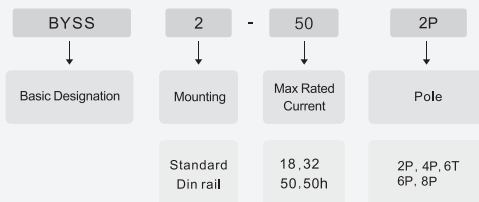
Application

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Appearance Introduction



Type Instruction



Parameter

| Electrical Characteristics | | |
|--|------------------------|---|
| Rated Working Voltage | Ue | Details in diagram |
| Rated Current | Ie | Details in diagram |
| Conventional free air thermal current | Ith | 50A 60A(50h) |
| 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 | | |
| Utilizatin category DC | | DC-PV2 |
| Number of cycles of operation(with current) | | 300 |
| Number of cycles of operation(without current) | | 10000 |
| Operation rate | | 120/h |
| Pole | | 2/4/6/8 |
| Mounting | | Standard Din rail |
| Tightening torque terminal screws M4, min.-max. | | 1.2N·m~1.8N·m |
| Tightening torque panel mounting nut, min.-max. | | 2.5N·m±0.1N·m |
| Tightening torque M3 screw in the knob,min.-max. | | 0.5N·m~0.7N·m |
| 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 | | IP20 |
| IP rating panel | | IP66 |
| Wiring rating | 14 AWG-8 AWG, Stranded | 2.5mm ² ~10.0mm ² |

Wiring Diagram

| | Type | Contact Configuration | | | | | | | | | Poles in series | Number of Strings |
|--|---------------|-----------------------|------|-------|-------|-------|-------|-------|-------|-------|-----------------|-------------------|
| | | | 800V | 1000V | 1100V | 1200V | 1350V | 1400V | 1500V | 1600V | | |
| | BYSS.2-18 2P | | 25A | 18A | | 15A | | | | | 2 | 1 |
| | BYSS.2-32 2P | | 40A | 32A | | 25A | | | | | 2 | 1 |
| | BYSS.2-50 2P | | 50A | 50A | | 40A | | | 16A | | 2 | 1 |
| | BYSS.2-50h 2P | | | | 60A | 50A | 40A | 35A | 30A | 16A | 2 | 1 |
| | BYSS.2-18 4P | | 25A | 18A | | 15A | | | | | 2 | 2 |
| | BYSS.2-32 4P | | 40A | 32A | | 25A | | | | | 2 | 2 |
| | BYSS.2-50 4P | | 50A | 50A | | 40A | | | 16A | | 2 | 2 |
| | BYSS.2-50h 4P | | | | 60A | 50A | 40A | 35A | 30A | 16A | 2 | 2 |
| | BYSS.2-18 6P | | 25A | 18A | | 15A | | | | | 2 | 3 |
| | BYSS.2-32 6P | | 40A | 32A | | 25A | | | | | 2 | 3 |
| | BYSS.2-50 6P | | 50A | 50A | | 40A | | | 16A | | 2 | 3 |
| | BYSS.2-50h 6P | | | | 60A | 50A | 40A | 35A | 30A | 16A | 2 | 3 |
| | BYSS.2-50 6T | | | | | | 50A | | | 40A | 3 | 2 |
| | BYSS.2-18 8P | | 25A | 18A | | 15A | | | | | 2 | 4 |
| | BYSS.2-32 8P | | 40A | 32A | | 25A | | | | | 2 | 4 |
| | BYSS.2-50 8P | | 50A | 50A | | 40A | | | 16A | | 2 | 4 |
| | BYSS.2-50h 8P | | | | 60A | 50A | 40A | 35A | 30A | 16A | 2 | 4 |

Switching Configurations

| Type | 2P | 4P | 6P | 6T | 8P |
|-------------------------|----|----|----|----|----|
| Contacts Wiring diagram | | | | | |
| Switching example | | | | | |

Dimensions(mm)

