

阅读申明

- 1.本站收集的数据手册和产品资料都来自互联网，版权归原作者所有。如读者和版权方有任何异议请及时告之，我们将妥善解决。
- 2.本站提供的中文数据手册是英文数据手册的中文翻译，其目的是协助用户阅读，该译文无法自动跟随原稿更新，同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。
- 3.本站提供的产品资料，来自厂商的技术支持或者使用者的心得体会等，其内容可能存在描述上的差异，建议读者做出适当判断。
- 4.如需与我们联系，请发邮件到marketing@iczoom.com，主题请标有“数据手册”字样。

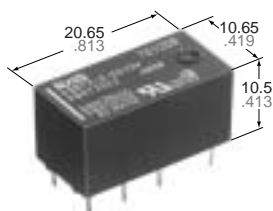
Read Statement

1. The datasheets and other product information on the site are all from network reference or other public materials, and the copyright belongs to the original author and original published source. If readers and copyright owners have any objections, please contact us and we will deal with it in a timely manner.
2. The Chinese datasheets provided on the website is a Chinese translation of the English datasheets. Its purpose is for reader's learning exchange only and do not involve commercial purposes. The translation cannot be automatically updated with the original manuscript, and there may also be improper translations. Readers are advised to use the English manuscript as a reference for more accurate information.
3. All product information provided on the website refer to solutions from manufacturers' technical support or users the contents may have differences in description, and readers are advised to take the original article as the standard.
4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with "Datasheets" .

NAIS

4,000 V BREAKDOWN VOLTAGE DS RELAYS

DS-BT RELAYS



mm inch

FEATURES

- 4,000 V breakdown voltage
- Reinforced insulation between coil and contacts
- Surge voltage withstand: 1500 V FCC Parts 68

SPECIFICATIONS

Contact

| | | | |
|---|----------------------------|--------------------|-----------------|
| Arrangement | | 2 Form C | 2 Form D |
| Initial contact resistance, max. (By voltage drop 6 V DC 1 A) | | 50 mΩ | |
| Contact material | | Gold-clad silver | |
| Rating (resistive load) | Nominal switching capacity | 2 A 30 V DC | 1 A 30 V DC |
| | Max. switching power | 60 W, 125 VA | 30 W, 62.5 VA |
| | Max. switching voltage | 220 V DC, 250 V AC | |
| | Max. switching current | 2 A | 1 A |
| | Min. switching capacity**1 | 10 μA 10 mV DC | |
| Electrical life (min. ope.) | Mechanical (at 180 cpm) | 2×10 ⁷ | 10 ⁶ |
| | Electrical (at 20 cpm) | 2×10 ⁵ | |

**1 This value can change due to the switching frequency, environmental conditions, and desired reliability level, therefore it is recommended to check this with the actual load.

Coil

| | | | |
|-------------------------|--|----------|----------|
| Arrangement | | 2 Form C | 2 Form D |
| Nominal operating power | | 360 mW | 540 mW |

Remarks

- * Specifications will vary with foreign standards certification ratings.
- *1 Measurement at same location as "Initial breakdown voltage" section
- *2 Detection current: 10mA
- *3 Excluding contact bounce time
- *4 Half-wave pulse of sine wave: 11ms, detection time: 10μs
- *5 Half-wave pulse of sine wave: 6ms
- *6 Detection time: 10μs
- *7 Refer to 5. Conditions for operation, transport and storage mentioned in AMBIENT ENVIRONMENT in catalog

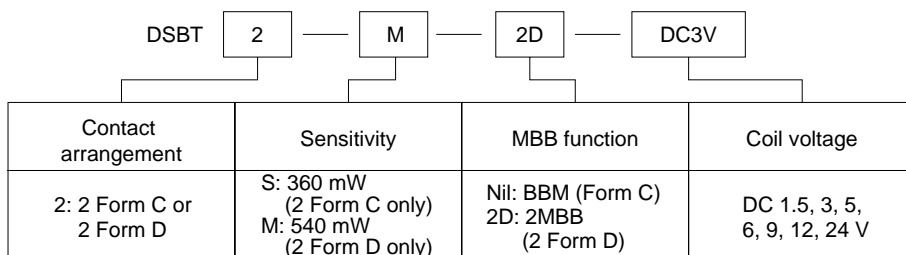
Characteristics

| | | | |
|--|---------------------------|---|-----------------------------------|
| Arrangement | | 2 Form C | 2 Form D |
| Max. operating speed | | 60 cpm at rated load | |
| Initial insulation resistance*1 | | Min. 100 MΩ (at 500 V DC) | |
| Initial break-down voltage*2 | Between open contacts | 750 Vrms for 1 min. | 500 Vrms for 1 min. |
| | Between contacts and coil | 4,000 Vrms for 1 min. | |
| | Between contacts sets | 750 V | 500 V |
| FCC surge voltage between open contacts | | 1,500 V | |
| Operate time*3 (at nominal voltage) | | Approx. 3 ms | |
| Release time (without diode)*3 (at nominal voltage) | | Approx. 2 ms | |
| Temperature rise | | Max. 65°C | |
| Vibration resistance | Functional*4 | 10 to 55 Hz at double amplitude of 3.3 mm | |
| | Destruction*5 | 10 to 55 Hz at double amplitude of 5 mm | |
| Shock resistance | Functional*6 | Min. 294 m/s ² (30 G) | |
| | Destruction | Min. 980 m/s ² (100 G) | |
| Conditions for operation, transport and storage*7 (Not freezing and condensing at low temperature) | Ambient temp. | -40°C to +70°C -40°F to +158°F | -40°C to +60°C -40°F to +140°F |
| | Humidity | 5 to 85%R.H. | |
| Unit weight | | Approx. 4.0 g 0.14 oz | |

TYPICAL APPLICATIONS

Modem
Facsimile
Telecommunication equipment

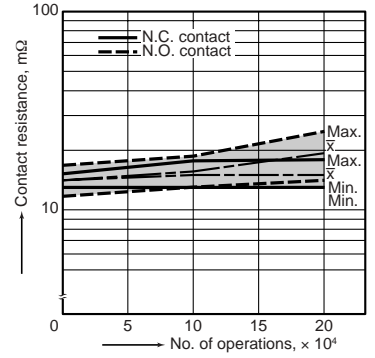
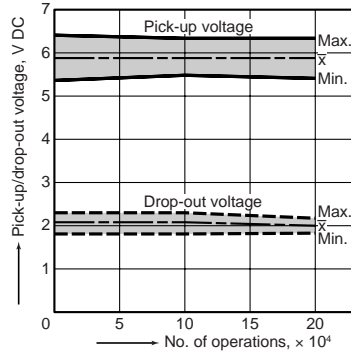
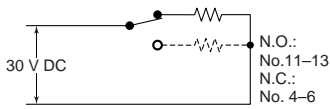
ORDERING INFORMATION



Note: Standard packing; Carton: 25 pcs. Case 1,000 pcs.

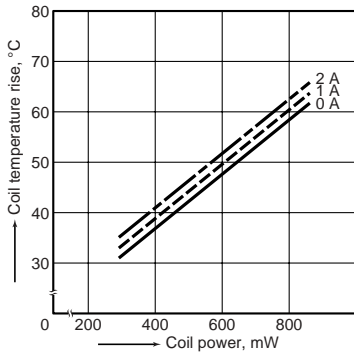
2. Electrical life test (resistive)

Tested sample: DSBT2-S-DC12V, 6 pcs.
 Condition: 2 A 30 V DC resistive load, 30 pcm
 Circuit



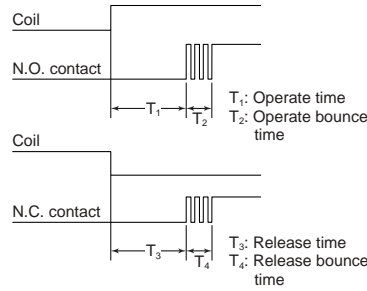
3. Coil temperature rise

Tested sample: DSBT2-S-DC12V, 5 pcs.
 Measured portion: Inside the coil

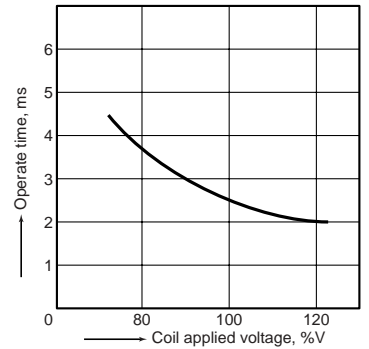


4. Operate and release time characteristics

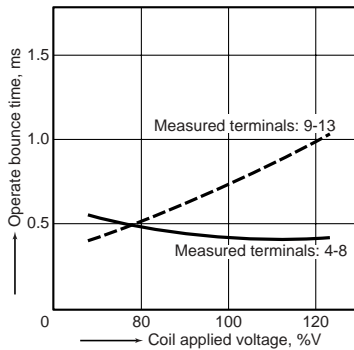
Tested sample: DSBT2-S-DC5V, 10 pcs.
 Ambient temperature: 23°C 73°F



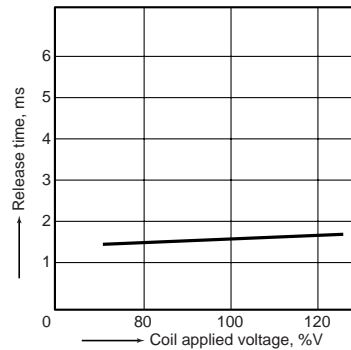
Without diode (T₁)



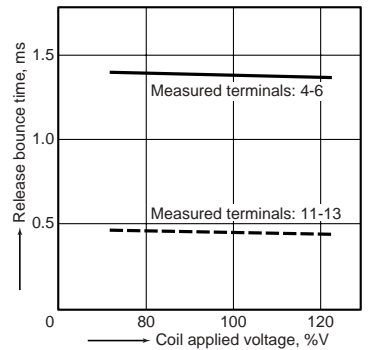
Without diode (T₂)



Without diode (T₃)

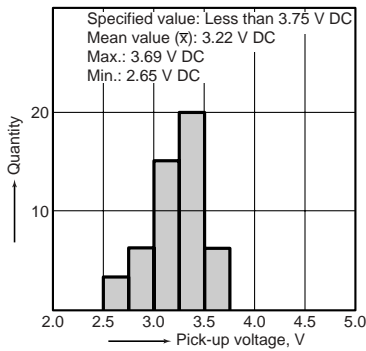


Without diode (T₄)

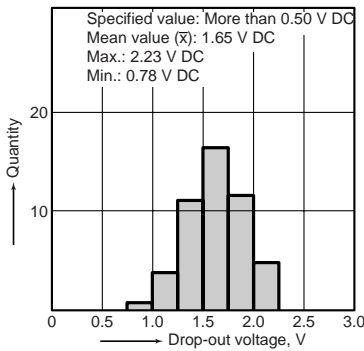


5. Distribution of pick-up and drop-out voltage

Tested sample: DSBT2-S-DC5V, 50 pcs.
 Pick-up voltage

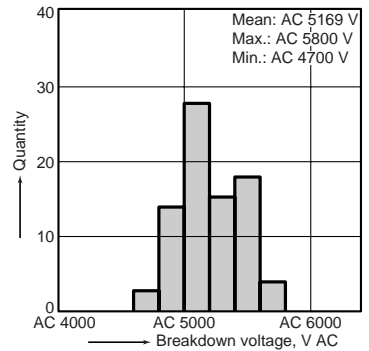


Drop-out voltage



6. Distribution of breakdown voltage

(between contacts and coil)
 Tested sample: DSBT2-S-DC5V, 100 pcs.



For Cautions for Use, see Relay Technical Information in catalog.