

Electrical specifications¹⁾

| | HVC200 | | HVC300 Preliminary data | | HVC500 Preliminary data | | |
|--|-----------|-----------|----------------------------|-----------|----------------------------|-----------|--|
| | 12-V type | 24-V type | 12-V type | 24-V type | 12-V type | 24-V type | |

Contact

| | | | | | | | |
|--------------------------------------|------------------------------|--------------|--------------|--|--------------|--|-----------------|
| Ordering code | B88269X1000C011 (1 pc.) | Upon request | Upon request | | Upon request | | |
| | B88269X1000C101 (10 pcs.) | Upon request | | | | | |
| Operating voltage | 12 ... 450 | | 12 ... 900 | | 12 ... 900 | | V _{DC} |
| Nominal current | 200 | | 300 | | 500 | | A |
| Temporary overcurrent (10 min.) | 300 | | 400 | | 600 | | A |
| Temporary overcurrent (1 min.) | 400 | | 500 | | 750 | | A |
| Minimum make and break current | 1 | | 1 | | 1 | | A |
| Contact resistance typical (> 100 A) | < 0.4 | | < 0.4 | | < 0.4 | | mΩ |

Coil²⁾

| | | | | | | | |
|---|----------|-----------|----------|-----------|----------|-----------|-----------------|
| Rated voltage | 12 | 24 | 12 | 24 | 12 | 24 | V _{DC} |
| Operating voltage range | 9 ... 16 | 18 ... 32 | 9 ... 16 | 18 ... 32 | 9 ... 16 | 18 ... 32 | V _{DC} |
| Pick-up voltage range (max.) | 9 | 18 | 9 | 18 | 9 | 18 | V _{DC} |
| Drop-out voltage (min.) | 1 | 2 | 1 | 2 | 1 | 2 | V _{DC} |
| Power | 6 | 6 | 6 | 6 | 6 | 6 | W |
| Nominal operating current ³⁾ | 500 | 250 | 500 | 250 | 500 | 250 | mA |
| Minimum holding current | 160 | 80 | 160 | 80 | 160 | 80 | mA |

Electrical characteristics

| | | | | | | | |
|--|--------|--|--------|--|--------|--|-----------------|
| Operating time make | < 40 | | < 40 | | < 40 | | ms |
| Operating time break | < 20 | | < 20 | | < 20 | | ms |
| Insulation resistance at 500 V (initial) contact to contact / contact to coil | > 1 | | > 1 | | > 1 | | GΩ |
| Dielectric strength ⁴⁾ contact to contact / contact to coil | > 3800 | | > 3800 | | > 3800 | | V _{AC} |

Service life⁵⁾

| | | | | | | | |
|------------------------------------|---------|--|---------|--|---------|--|------------|
| Mechanical | 1000000 | | 1000000 | | 1000000 | | operations |
| Make and break at 10 A | 50000 | | 50000 | | 100000 | | operations |
| Make and break at 30 A | 30000 | | 30000 | | 50000 | | operations |
| Make and break at 100 A | 10000 | | 10000 | | 20000 | | operations |
| Make and break at 200 A | 100 | | 100 | | 1000 | | operations |
| Break only at 500 A | 10 | | 10 | | 10 | | operations |
| Break only at 2000 A ⁶⁾ | 1 | | 1 | | 1 | | operation |

Notes:

1) Specified according to JIS C5442 (temperature +15 °C to +35 °C, humidity 25% to 85% RH)

2) Ambient temperature at +25 °C

3) Tolerance ±10%

4) Detection limit 10 mA

5) Tested at 450 V for resistive loads including inductance L < 35 μH. End of life is reached when dielectric strength is < 50 MΩ @ 500 V.

6) No fire and no explosion will occur after a break at 2000 A. After such an event, however, the dielectric strength and insulation resistance may not meet initial data sheet specifications.

