

DSC100 series LVDC Contactor 1000A / 60VDC





DURAKOOL

- Rated load: 1000A at 60VDC
- Auxiliary contact option
- Bi-stable (Latching) option
- Busbar power terminations
- For battery storage applications

| - \[_8\] | RoHS |
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| E305753 | |

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|---|---------------|--|---|--|--|--|
| Contacts | | | Ordering Code | | | |
| Contact arrangement | | SPST-NO-DM | | | | |
| Contact material | | AgCu Alloy + Ag plating | DSC100 -4 0 2 1 - 2 8 -1 0 2 4 - S | | | |
| Max. switching voltage DC | | 60VDC | | | | |
| Rated load (resistive, cos φ=1) DC1 | | 1000A 60VDC | DSC Series Coil codes | | | |
| Max. continuous thermal current | | 1000A | 100: Standard See table 1 | | | |
| Fault current breaking capacity (resistive) | | 3000A @ 60VDC (UL508) | | | | |
| Terminal temperature rise above | ambient | <70°C. IEC EN60947, GB14/14048.4 | Contact arrangement | | | |
| Contact voltage drop | max. | ≤50mV @ 1000A | 4021: SPST-NO-DM | | | |
| Auxiliary contact (when fitted) | arrangement | SPST-NO + SPST-NC | | | | |
| | max. current | 5A @ 24VDC / 2A @ 48VDC | Body style | | | |
| | min. current | 100mA @ 5V | 28: Open frame, or busbar connections | | | |
| Coil | | | | | | |
| Nominal Voltage (see Table 1) DC | | 12, 24, 48, 60VDC | Accessory options | | | |
| Rated power consumption | | 15~25W hold (non-Latch), 50~70W pulse (Latch) | Blank: No option | | | |
| Working duty | | Continuous (non-latching) | S: Auxiliary switch | | | |
| Insulation | | | Fitted with varistor for coil surge suppression as standard | | | |
| Insulation resistance initial | | 100MΩ (Min.) @500VDC | | | | |
| life end | | 50MΩ (Min.) | Mounting & terminations | | | |
| Dielectric strength coil to contact | | 2500V _{rms} (50/60Hz) / <1mA / 1 min (at sea level) | Blank: No bracket | | | |
| contact to contact | | 1500V _{rms} (50/60Hz) / <1mA / 1 min (at sea level) | | | | |
| General Data | | | | | | |
| Operate / bounce time at 20°C | max. | 60ms / 5ms | NB: Mounting orientation: The DSC100 may be mounted horizontally, but if mounted vertically, the coil should be positioned downwards. | | | |
| Release time | | 60ms | | | | |
| Electrical life | at rated load | 6000 operations | | | | |
| Mechanical life | operations | 1 x 10 ⁵ | Magnetic latching types: For latching types, ensure square wave pulse length between | | | |
| Environmental | | | 500ms and 1s to allow contacts to settle and magnetic circuit to be fully established. Operating frequency should be no more | | | |
| Ambient temperature operating | | -25°C to +65°C (Latching), +85°C (non-Latching) | than 6 ops/min. Continuous energisation is not allowed. | | | |
| Shock resistance | | ≤4g, (60 ~ 100ops/min) | | | | |
| Vibration resistance | | ≤3.5g sine peak (10 to 200Hz) | | | | |
| Relative humidity RH | | 20 to 90% | | | | |
| Dimensions L x W x H | | 135 x 90.5 x 152mm (over busbar terminations) | | | | |
| Weight | approx. | 3.02kgs | | | | |

Specifications are subject to change without notice. E&OE.



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| Coil Data Table | | | | | | | |
|---|--|--|---------------------------------|---------------------------------------|----------------------------------|------------------------|--|
| Coil code | Nominal voltage (VDC) U _s | Coil working voltage range (V) | Must operate voltage max. (VDC) | Must release voltage min. (VDC) | Coil power dissipation (W) | Holding current (A) | |
| DSC100 Standard (Mono-stable, non latching) | | | | | | | |
| 1012 | 12 | 0.85U _s ~ 1.1U _s | 8.4 | 1.2 | 15 ~ 25 | ≤2 | |
| 1024 | 24 | | 16.8 | 2.4 | 15 ~ 25 | ≤1 | |
| 1048 | 48 | | 33.6 | 4.8 | 15 ~ 25 | ≤0.7 | |
| 1060 | 60 | | 42.0 | 6.0 | 15 ~ 25 | ≤0.5 | |
| DSC100 Bi-stable, magnetic latching | | | | | | | |
| SL12 | 12 | 0.85U _s ~ 1.1U _s | 2.4 ~ 9.6 | 2.4 ~ 9.6 | 50 ~ 70 | | |
| SL24 | 24 | | 4.8 ~ 19.2 | 4.8 ~ 19.2 | 50 ~ 70 | | |
| SL48 | 48 | | 9.6 ~ 38.4 | 9.6 ~ 38.4 | 50 ~ 70 | | |
| SL60 | 60 | | 12.0 ~ 48.0 | 12.0 ~ 48.0 | 50 ~ 70 | | |
| Other coils available upon special request. MOQ's will apply. | | | | | | | |

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