

Rotary Joint || BN 636695

**Contactless DC-Power Transmission Channel Characteristics, 300W**

Interface type DC-Input	2 single wires, AWG14	Cable length stationary part: 1000mm ± 50mm
Interface type DC-Output	2 single wires, AWG14	Cable length rotating part: 1000mm ± 50mm
Input Voltage	20.4 V to 28.8 V DC	Power Supply has to be a SELV type acc. to IEC60950-1 The current must be externally limited to 20 A
Output Voltage	24 V DC ±3%	
Output Current, continuous	12.5 A	power derating dependent on temperature and input voltage
Power Derating	TBD	
Output Voltage Ripple, max.	80 mV	
Efficiency, min.	90%	@ full load
Applied standards	DIN EN 55022 DIN EN 61000-4-2 DIN EN 61000-4-3 DIN EN 61000-4-4 DIN EN 61000-4-6	Radio disturbance characteristics (A) ESD immunity RF immunity, radiated Transient / burst immunity RF immunity, conducted
Applicable EU Directive	EMC Directive 2004/108/EC	

Mechanical Data

Rotating speed, max.	300 rpm
Life, min.	200 x 10 ⁶ revolutions
MTBF	300 000 h
Torque (room / min. temperature), max.	0.2 Nm / 0.5 Nm @ start-up 0.2 Nm / 0.5 Nm @ rotation
Interface loads, max.	no loads allowed
Case material	aluminum alloy
Case surface finish	chromate conversion coat per MIL-DTL-5541 type 1 or type 2 Painted RAL9005 jet black
Weight, approx.	2 kg
Marking	adhesive label

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Environmental Conditions

Operation	
Ambient temperature range	-25 °C to +55 °C
Relative humidity, max.	95% (non-condensing)
Shock	30 g / 11 ms half sine, 3 shocks in each direction of 3 orthogonal axes Compliant to MIL-STD-810G
Vibration	20-50 Hz, PSD of 0,02 g ² /Hz falling to 0,001 g ² /Hz at 500 Hz in each of 3 orthogonal axes. Duration: 15 min/axis.
IP protection level	IP40 per EN 60529 (all interfaces connected with appropriate gaskets)
Maintenance	Not required
Storage	
Ambient temperature range	-40 °C to +85 °C
Relative humidity, max.	95% (non-condensing)

Applicable documents

Drawing	636695-0E, Issue C
Circuit Diagram	636695-CD, Issue B
Product manual	M36066
Technical information	"Rotary Joints – Glossary", Technical Document TD-00021, Spinner GmbH