

Rotary Joint || BN 835060



### Radio frequency characteristics

Interface type / material / surface finish	cable pigtailed with SMA-m (50 $\Omega$ ) connectors: copper alloy / gold plated
Interface orientation	style L
Frequency range	DC to 3 GHz
Peak power capability	-
Average power capability	18 W
VSWR, max.	1.35 @ DC to 3 GHz
VSWR variation over rotation, max.	0.2
Insertion loss, max.	1.3 dB @ DC to 1 GHz / 1.9 dB @ 1 to 2 GHz 2.1 dB @ 2 to 2.5 GHz / 2.3 dB @ 2.5 to 3 GHz
Insertion loss variation over rotation, max.	0.2 dB
Phase variation over rotation, max.	-
DC carrying capability	0.5 A @ 48 VDC, full RF avg. power 2 A @ 48 VDC, RF avg. power 1 W

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**Mechanical characteristics**

Rotating speed, max. / nominal	60 / 30 rpm
Life, min.	0.25 x 10 <sup>6</sup> revolutions
Torque (room / min. temperature), max.	0.05 Nm / 0.05 Nm @ start-up 0.05 Nm / 0.05 Nm @ rotation
Interface loads, max.	±0 N in axial direction ±0.1 N in radial direction
Case material	copper alloy
Case surface finish	partly plated by silver, nickel, tin
IP protection level	IP40
Weight, approx.	0.04 kg
Marking	stamping

**Environmental conditions**

<b>Operation</b>	
Ambient temperature range	-40 to +85°C
Relative humidity, max.	95% (non-condensing)
<b>Storage</b>	
Ambient temperature range	-55 to +85°C
Relative humidity, max.	95% (non-condensing)

**Applicable Documents**

Drawing	835060-0E Issue A
Technical information	"Rotary Joints – Glossary", Technical Document TD-00021, Spinner GmbH