

**Magnetically coupled
rotary feedthrough,
motorized, DN 40 CF**

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Rotary feedthrough

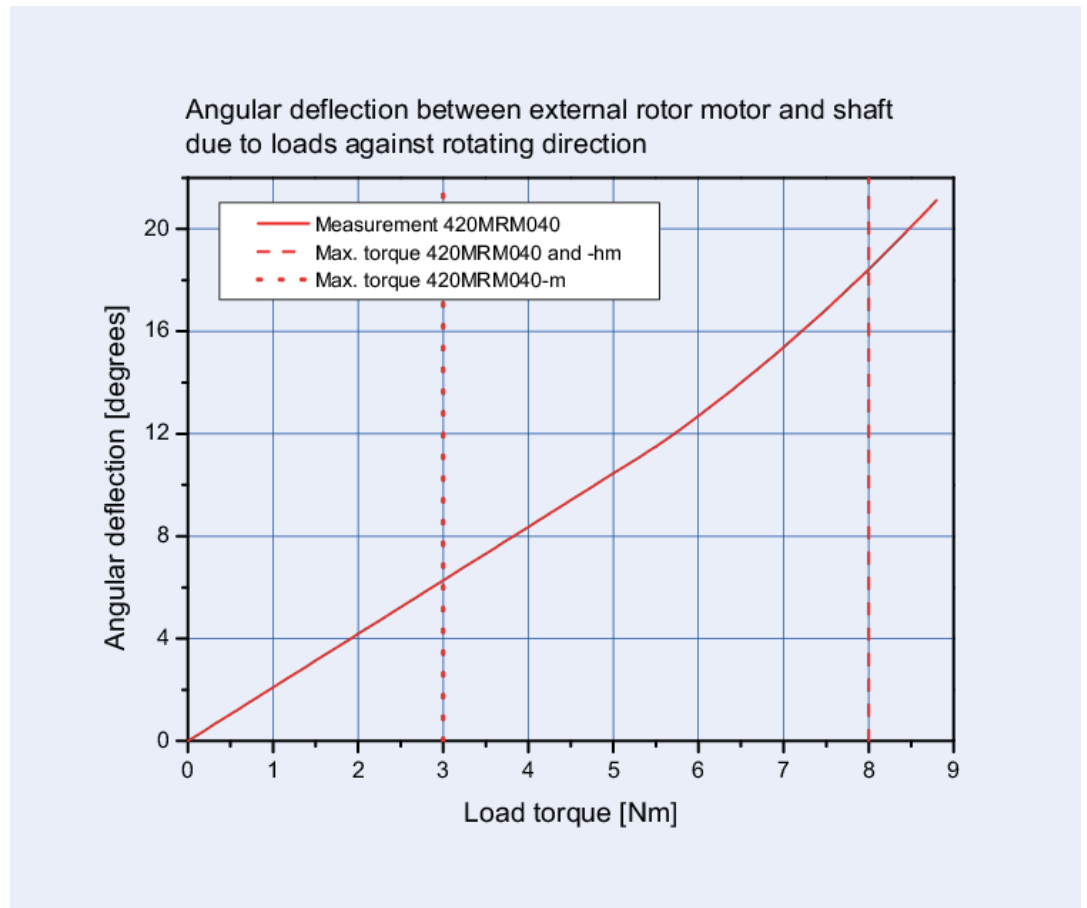


Illustration only

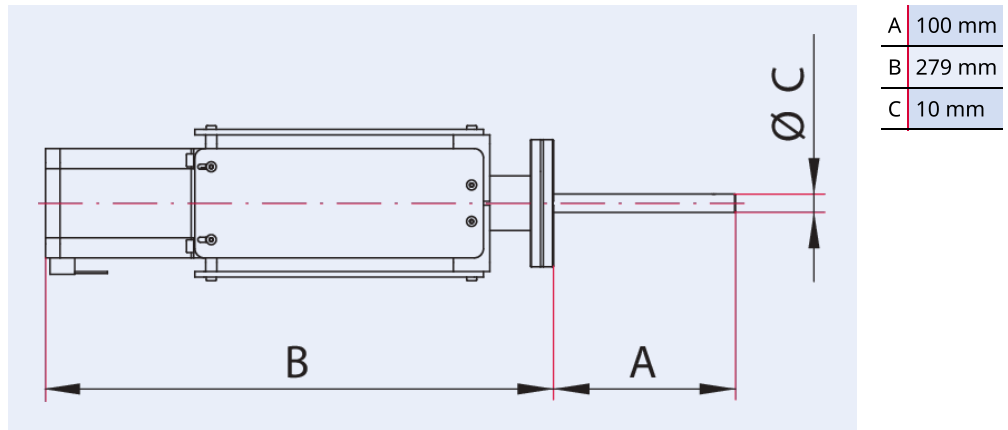
Magnetically coupled rotary feedthrough, motorized, DN 40 CF

- Shaft connection with threaded hole (vented)
- Magnetic coupling with samarium-cobalt magnets
- Stainless steel ball bearing with dry lubrication suitable for UHV
- Hermetically sealed, suitable for UHV
- The specification of the current applies per phase (bipolar parallel circuit)

Characteristics



Dimensions



Technical Data	Magnetically coupled rotary feedthrough, motorized, DN 40 CF
Materials in contact with media	Stainless steel 1.4301
Max. load vertical to axis (at end of shaft)	200 N
Bakeout temperature without electric parts	200 °C
Bakeout temperature with electric parts	80 °C
Transmission	Optional available
Angular deflection	See diagram in datasheet
Angle of rotation backlash	Backlash-free without torsional load
Thread	M 5
Angle of rotation	360°
Ambient temperature	10 – 50 °C
Operating temperature	≤ 60 °C
Control	Without driver and controller
Input voltage(s)	28 – 48 V DC
Tightness	1 · 10 ⁻¹¹ Pa m ³ /s 7.5 · 10 ⁻¹¹ Torr l/s 1 · 10 ⁻¹⁰ mbar l/s
Cable length	0.15 m
Bakeout temperature without electric parts	200 °C 392 °F 473.15 K
Bakeout temperature with electric parts	80 °C 176 °F 353.15 K
Thread depth	10 mm 0.39 inch
Weight approx.	4.8 kg 10.58 lb
Rotation speed	≤ 500 rpm
Lowest angular resolution	0.45 °
Shaft connection	With threaded hole, vented: M5 x 10
Connection flange	DN 40 CF
Torque	3 N m
Pressure range	1 · 10 ⁻¹⁰ hPa – 5 · 10 ² hPa over pressure
Material	Aluminum blank and anodized

Order number	Magnetically coupled rotary feedthrough, motorized, DN 40 CF
Magnetically coupled rotary feedthrough, motorized, DN 40 CF	420MRM040-m



Errors and/or changes excepted. - 5/14/2025

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