SG-8021

SG-8021 Integrated Planetary Robot Joint Actuator

PUBLIC CATALOGUE REFERENCE - Rev0.1 - 2026-11-18

Diameter	Reduction	Rated output torque	Rated output speed
100 mm	**9.25:1**	**10 Nm**	**160 rpm**

Published technical specifications

Transmission structure	Planetary gearbox	Rated output speed	160 rpm
Outer diameter	100 mm	No load output speed	240 rpm
Product thickness	42.6 mm	Rated output torque	10 Nm
Reduction ratio	9.25:1	Peak output torque	30 Nm
Backlash	15-20 arcmin	Weight	671 g
Operating voltage	24-48 VDC	Allowable radial force	1300 N
Motor power	213 W	Allowable axial force	550 N

Configuration and release scope

Driver, encoder, communication and closed-loop functions depend on the selected configuration.

Preliminary catalogue data. Peak torque is not a continuous rating. Controlled 2D mechanical interfaces, connector pinout, electronics/firmware and installation dimensions must be confirmed for the ordered configuration.

Online technical references: SG-8021 specifications and CAD status