SG-6010D

SG-6010D Integrated Planetary Robot Joint Actuator

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

Diameter	Reduction	Rated output torque	Rated output speed
80.0 mm	**28.13:1**	**16 Nm**	**100 rpm**

Published technical specifications

Transmission structure	Planetary gearbox	Rated output speed	100 rpm
Outer diameter	80.0 mm	No load output speed	170 rpm
Product thickness	58.77 mm	Rated output torque	16 Nm
Reduction ratio	28.13:1	Peak output torque	50 Nm
Backlash	15-30 arcmin	Weight	791 g
Operating voltage	24-48 VDC	Allowable radial force	1000 N
Motor power	328 W	Allowable axial force	400 N

Configuration-specific variants (not standard by default)

SG6010 driver platform protocols	CAN Simple / CANopen / RS485 Modbus RTU
Driver encoder resolution	16-bit single-turn absolute
Driver rated voltage	15~48 V DC
Driver CAN maximum bitrate	1 Mbps

Configuration and release scope

Available with or without an integrated driver; the confirmed SG6010 driver platform supports CAN Simple, CANopen and RS485 Modbus RTU on the matching interface configuration.
CAN Simple / CANopen / RS485 applies only to the confirmed driver-equipped hardware and firmware.

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-6010D specifications and CAD status