SG-6010HB

SG-6010HB Compact Planetary Exoskeleton Joint Motor

PUBLIC CATALOGUE REFERENCE - Rev0.1 - 2026-11-19

Diameter	Reduction	Rated output torque	Rated output speed
67.0 mm	**9.67:1**	**6 Nm**	**310 rpm**

Published technical specifications

Transmission structure	Planetary structure	No load output speed	400 rpm
Outer diameter	67.0 mm	Rated output torque	6 Nm
Product thickness	25.57 mm	Peak output torque	18 Nm
Reduction ratio	9.67:1	Weight	298.5 g
Backlash	15-20 arcmin	Allowable radial force	250 N
Motor power	328 W	Allowable axial force	100 N
Rated voltage	12-48 V	Motor structure	18N20P
Rated output speed	310 rpm	Motor torque constant	0.0606 Nm/A

Configuration and release scope

Catalog-positioned as a compact planetary exoskeleton joint motor; current driver-equipped configuration uses the confirmed SG6010 driver platform, while hardware/firmware revision, second encoder, cable set and expansion interfaces remain configuration-specific.
CAD release hold: supplied SG-6010HB exchange-assembly STEP is not verified against the catalog 67.0 mm x 25.57 mm envelope. Neither the raw assembly STEP nor a controlled 2D production drawing is publicly released. Request configuration-matched design files.
Driver caution: actuator catalog says 12-48 V; the referenced driver platform lists 15-48 V for rated operation.

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-6010HB specifications and CAD status