193747

Industrial automation components

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Manufacturer	Festo
Catalog number	193747
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Size	40 mm
Stroke Reserve	20 mm
Spindle Diameter	20 mm
Spindle Pitch	20 mm/U
Guide Type	Recirculating ball bearing guide
Motor Type	Stepper motor, Servomotor
Max. Acceleration	6 m/s²
Max. Speed	1 m/s
Repetition Accuracy	±0.02 mm
Ambient Temperature Range	0 to 40 °C
Max. Drive Torque	2.1 Nm
Max. Radial Force at Drive Shaft	250 N

Description

The Festo 193747 is an electromechanical linear axis with spindle, designed for precise linear motion applications. This model features a 40 mm size, a 20 mm stroke reserve, and a 20 mm spindle diameter with a 20 mm/U spindle pitch. It utilizes a recirculating ball bearing guide and is suitable for heavy-duty applications. The system is compatible with stepper and servomotors, offering a maximum acceleration of 6 m/s² and a maximum speed of 1 m/s. It ensures high precision with a repetition accuracy of ±0.02 mm and operates effectively within an ambient temperature range of 0 to 40 °C. The

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maximum drive torque is 2.1 Nm, with a maximum radial force at the drive shaft of 250 N and a maximum feed force of 600 N. The mass moment of inertia per meter of stroke is 1 kg·cm², and per kilogram of working load, it is 0.101 kg·cm². The feed constant is 20 mm/U. The materials used include anodized wrought aluminum alloy for the end caps, moment compensator, and profile, high-alloy non-corrosive steel for the cover tape, and roller bearing steel for the guide rail, spindle nut, and spindle.