

MDS-B-V1-10

Industrial automation components

Manufacturer	Mitsubishi
Catalog number	mds-b-v1-10
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Weight	6.80 kgs
Power	1 kW
Horsepower	1 KW
Cooling Capacity	1 kW
Product Type	Drive

Description

The Mitsubishi MDS-B-V1-10 is a single-axis AC servo drive unit designed for high-precision control in CNC machine tools. Part of the MDS-B series, it offers a rated output of 1.0 kW, delivering approximately 6.8 A continuous current. The unit supports dual-mode input, adaptable to both AC 200–230 V (50/60 Hz) drawing ~0.2 A, and DC 270–311 V drawing ~7 A, ensuring compatibility with various CNC power configurations. Utilizing high-density IGBT-IPM technology, the MDS-B-V1-10 minimizes heat generation, enhancing efficiency and reliability. Its compact "book-type" design facilitates easy installation in control cabinets. The drive is optimized for use in MELDAS M500 CNC systems and supports high-resolution detectors for precise positioning. Key features include natural air cooling, a protection class of approximately IP20 when installed in a control cabinet, and an ambient temperature range of 0°C to +55°C. The MDS-B-V1-10 is suitable for applications requiring repeatable positioning, dynamic acceleration, and reliable control, commonly found in machining centers, lathes, and specialized machines.