

MDS-A-SP-110

Industrial automation components

Manufacturer	Mitsubishi
Catalog number	mds-a-sp-110
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Weight	5.87 kgs
Rated Output Capacity	11.0 kW
Drive Type	AC Spindle Drive
Series	MDS-A
Compatibility	MELDAS M500 Series NC
Drive Type	AC Spindle Drive
Design Series	MDS-A
Application Area	Industrial Automation

Description

The Mitsubishi MDS-A-SP-110 is a high-performance AC spindle drive designed for precision control in industrial automation applications. Manufactured by Mitsubishi Electric, this drive offers a rated output capacity of 11.0 kW, ensuring robust performance for demanding tasks. It is part of the MDS-A series, which integrates servo and spindle drive functions into a single unit, reducing installation space and enhancing system efficiency. The MDS-A-SP-110 is compatible with the MELDAS M500 Series NC, providing seamless integration for advanced control capabilities. Key features include a compact and lightweight design achieved through the use of high-density mounted electronic components and intelligent Power Modules (IPM). The drive operates with low heat generation, thanks to its efficient power supply regeneration and IPM technology. For precise processing, it incorporates a high-speed CPU and a 100,000 pulse/rotation sub-micron detector, facilitating faster and more accurate interpolation. Additionally, the drive supports high-speed spindle orientation, enabling smooth operations and minimal orientation times. Compliance with European Safety Standards (LVD) ensures the MDS-A-SP-110 meets rigorous safety requirements. This drive is ideal for applications requiring precise spindle control, such as CNC machine tools, milling machines, and turning machines.