MDS-C1-SP-110

Industrial automation components

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Manufacturer	Mitsubishi
Catalog number	mds-c1-sp-110
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Input Voltage	200-230 VAC
Continuous Power Output	11.0 kW
DC Bus Voltage	280-325 VDC
Cooling Method	Forced air with external heat sink
Supported Encoder Types	Motor PLG, Magnetic Sensor, Spindle End PLG

Description

The Mitsubishi MDS-C1-SP-110 is a high-performance AC spindle drive unit designed for precise control of AC spindle motors in CNC machine tools. Part of the MELDAS MDS-C1 series, it offers a continuous power output of 11.0 kW, making it suitable for demanding machining applications.

The drive operates with a 200V class input voltage (3-phase 200-230 VAC, 50/60 Hz) and provides a DC bus voltage of approximately 280-325 VDC when connected to the MDS-C1-CV power supply. Its compact design ensures efficient heat dissipation, featuring external heat sinks and forced air cooling.

The MDS-C1-SP-110 supports various encoder feedbacks, including motor PLG, magnetic sensors, and spindle end PLG, ensuring compatibility with a wide range of spindle motors. Communication interfaces include the Mitsubishi High-Speed CNC Bus (SH21), facilitating seamless integration with Mitsubishi CNC systems.

This spindle drive unit is ideal for applications requiring high precision and reliability in CNC machining processes.

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