AUTOMATION TRADER

MDS-D-SP-80

Industrial automation components

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Manufacturer	Mitsubishi
Catalog number	mds-d-sp-80
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Manufacturer	Mitsubishi
Part Number	MDS-D-SP-80
Product Type	Single-axis AC spindle drive unit
Input Voltage	380–440 V at 50 Hz / 380–480 V at 60 Hz
Rated Output Current	19 A
Peak Current	80 A
Control Method	Sine-wave PWM
Braking System	Regenerative braking
Cooling Method	Forced air
Compatible Motor	SJ-D3.7/100-01, SJ-D5.5/100-01
Motor Output	2.2 kW (SJ-D3.7/100-01), 3.7 kW (SJ-D5.5/100-01)
Base Rotation Speed	1500 r/min

Description

The Mitsubishi MDS-D-SP-80 is a single-axis AC spindle drive unit engineered for high-performance CNC machine spindles. Designed to operate efficiently within a control voltage range of 380 to 440 V at 50 Hz and 380 to 480 V at 60 Hz, it delivers a rated output current of 19 A, with a peak current capacity of 80 A, suitable for demanding industrial applications.

The drive utilizes sine-wave PWM control for precise motor operation and features regenerative braking for enhanced energy efficiency. Cooling is achieved through forced air, ensuring reliable

performance under continuous operation.

This unit is compatible with Mitsubishi's SJ-D series spindle motors, including models SJ-D3.7/100-01 and SJ-D5.5/100-01, which offer continuous rated outputs of 2.2 kW and 3.7 kW, respectively, at a base rotation speed of 1500 r/min.

The MDS-D-SP-80 is housed in a compact design, with dimensions and weight optimized for integration into various CNC systems. For detailed specifications and integration guidelines, refer to the MDS-D/DH Series Specifications Manual.