

Allen-Bradley 1771-HS3A

The Allen-Bradley 1771-HS3A module is a servo controller module from the PLC 5 product line. It is a 3-axis type of servo controller module that is designed for applications in an Allen-Bradley Bulletin 1771 I/O chassis. The 1771-HS3A servo controller module also uses the Allen-Bradley 1771-PS7 power supply module to operate. This servo controller module can operate with devices such as solenoids, indicators, and AC motor starters. The 1771-HS3A servo Technical specifications for 1771-HS3A

Manufacturer Rockwell Automation

Brand Allen-Bradley

Part Number/Catalog No. 1771-HS3A

Module Type Servo Controller Module

Fuse Voltage 120 Volts

Max Input Frequency 250 Kilohertz Differential Input

Outputs +/- 10 Volt DC Analog Command

Slots 2 Slots Per ES

Module Update Period 2 ms/axis

Backplane Current 1.7 Amperes

Wiring Arm 1771-WA

Pulse Capture Time 50-9.999 Microseconds

Dimensions 3.5 x 6.5 x 2.0 in (89 x 165 x 51 mm) Description

The 1771-HS3A IMC 120 Servo Controller Module by Allen-Bradley is a 3-axis servo controller module specially designed for use with the 1771 I/O chassis series and it consists of a memory module, a power module, an encoder module, a resolver, and an optional Hand-Held pendant. The module has similar specifications to most IMC 120 servo controllers with an additional 3-axis capability. The 1771-HS3A uses a power supply module (1771-PS7) which supplies 120-240V AC at 1A and 2A, using the 9-pin connected cable (1771-CAS) connected the controller's power connector and it uses the 1771-HMA 96 KB battery-backed memory cartridges which store the servo controller's AMP parameters and MML downloaded programs. The 1771-HS3A uses the RS-232 connector to connect to the connector of the T45 and T50 ODS and by using an optional Hand-Held pendant through the ODS users can modify the system's variable and parameter values. It comes with LED light indicators which indicate the 1771-HS3A's various status. The 1771-HS3A uses a resolver feedback and with a resolver excitation module, it can produce Sine and Cosine signals which excite and activate the stator of the resolver. It uses an encoder feedback which provides 10V DC isolated outputs, and a 250 KHz and 20 KHz differential and single-ended inputs. Its operational temperature ranges between 0 and 60°C at an ambient relative humidity range of 5-95% without condensation and it is c-UL, C-TICK, and CE-certified.

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