

Allen-Bradley 1771-HRA

The Allen-Bradley/Rockwell Automation 1771-HRA module is a resolver excitation module or driver module from the PLC 5 series. Its current ratings are 340 milliamps at 5.2 Volts DC and 228 milliamps at 15 Volts DC. The 1771-HRA resolver excitation module draws its power from an Allen-Bradley 1771-PS7 power supply. Its maximum wattage rating is 9.06 Watts. The 1771-HRA resolver excitation Technical specifications for 1771-HRA

Manufacturer Rockwell Automation

Brand Allen-Bradley

Part Number/Catalog No. 1771-HRA

Module Type Resolver Excitation 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-HRA Resolver Excitation Module by Allen-Bradley is a module located on the 1771 I/O chassis slot and is used with the IMC 120 System to provide Sine and Cosine Signals which excite the Stator of the IMC 120 Resolver Feed-back and provide position feedback to controller modules. The 1771-HRA uses the 1771-PS7 power supply module which provides 5V, 15V, and 24V DC power using the 1771-CAS cable connected to the 12-pin Latch and Lock connector of the 1771-HRA and it has a backplane power consumption of 0.4W. It has a Green LED indicator light to show the power status, and it uses the 1771-CAPR 12ft cable to connect to the termination panel. It has a Sinusoid output amplitude of 6.72V (RMS) minimum and a maximum amplitude of 7.42V (RMS) and it has 0.3% maximum Sine-Cosine matching amplitude. The 1771-HRA has a maximum OFFSET voltage of 0.01V DC with 0.1% TDH signal distortion and an output frequency of 2.5 KHz. Its Sine-to-Cosine relationship stays at 900 for 4.5 minutes, with a Sine Phase OFFSET of 0.450, and a Sine Drift of +/-5.4 minutes. It has a maximum output inductive load of 80 Ohms at 800 and it has an output current limit of 0.81A (min) and 0.35A (max). The 1771-HRA has a maximum signal delay time of 2s from Power-up to Output.

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