

5212 CURRENT REGULATED POWER SUPPLY

DESCRIPTION

The 5212 is a 0-1A current-regulated 24 VDC power supply and display that is designed for use with Magtrol's hysteresis brakes and clutches. It features a 10-turn current adjustment potentiometer and 3 selectable current ranges: 200 mA, 500 mA, and 1000 mA. A convenient built in panel meter displays the value of output current.

The 5212 is designed as a closed-loop power supply to provide smooth application of current throughout an entire range up to a maximum set point. By utilizing regulated current, fluctuations in brake torque caused by temperature changes within the brake coil are eliminated. Braking current can be controlled manually from the front panel using the 10-turn potentiometer. Alternatively, if remote operation is required, the 5212 can be controlled by an external source using the 0-5 VDC control input located on the rear panel.



Fig.1 : 5212 Current Regulated Power Supply

SPECIFICATIONS_

Brake Voltage	24 VDC			
Current Ranges	0-200 mA, 0-500 mA, 0-1000 mA			
Current Regulation	±1% Full Scale			
Braking Control	10-Turn Potentiometer (front panel) or 0-5 VDC External Control (back panel)			
Line Fuse (5 x 20 mm)	5212-2: 120 V IEC 1.0 A 250 V T 5212-2A: 240 V IEC 0.4 A 250 V T			
Brake Fuse (5 x 20 mm)	IEC 1.25 A 250 V T			
Power Requirements	70 VA			
Voltage Requirements	120/240 VAC 50/60 HZ			
External Control Impedance	1 M Ohms			

5212-2 120 V POWER SUPPLY 5212-2A 240 V

Input Power (AC)-

DIMENSIONS

SYSTEM CONFIGURATION

Width	7.50 in	190 mm
Depth	9.75 in	245 mm
Height	2.75 in	69 mm

(Optional) **Control Voltage** 0-5 VDC

MODEL 5212

ORDERING INFORMATION

5212-2 Current Regulated Power Supply 120 VAC 5212-2A Current Regulated Power Supply 240 VAC

е	1	/	1	

5212

Page

DATASHEET

MAGTROL INC 70 Gardenville Parkway Buffalo NY 14224 | USA

phone +1 716 668 5555 fax +1 716 668 8705 e-mail magtrol@magtrol.com MAGTROL SA Route de Montena 77 1728 Rossens | Switzerland

©2022 MAGTROL | Due to continual product development, Magtrol reserves the right to modify specifications without forewarning

phone +41 26 407 30 00 fax +41 26 407 30 01 e-mail magtrol@magtrol.ch

Offices in: Germany France - China - India Worldwide Distribution Network



Hysteresis

Brake

or Clutch

12/2022 ns 5212 -