

Triple Power Supply HM8040-3



2x 0-20 V/0.5 A 5 V/1 A

3-digit switchable displays for current and voltage

Display resolution 0.1 V/1 mA

Adjustable current limiting

Linear in line regulator

Low residual ripple and low noise

Pushbutton for activating/deactivating all outputs

Electronic fuse

Mainframe HM8001-2 required for operation

Mainframe HM8001-2



Silicone test lead HZ10



Triple Power Supply (module) HM8040-3

Valid at 23 °C after a 30 minute warm-up period

Outputs

2 x 0-20V and 5V
Single pushbutton control of all outputs, linear regulators with overheating protection. Floating outputs for parallel/serial operation, current limit and electronic fuse

20 V Output

Setting range: 2 x 0 – 20V, continuously variable

Residual ripple: $\leq 1 \text{ mV}_{\text{rms}}$

Output current: max. 0.5A

Current limit / electronic fuse: 0 – 0.5A continuously variable

Dynamic behaviour:

Load change 10% - 90% of full load

Recovery time: 200 μs

Dyn. transient deviation: 1.5 mV

Dyn. output impedance: 3.75 m Ω

Load change at 50% basic load and $\pm 10\%$ of full load

Recovery time: 150 μs

Dyn. transient deviation: 400 μV

Dyn. output impedance: 4 m Ω

5 V Output

Range: 5V $\pm 0.5\text{V}$ screw-driver adjustment

Ripple and noise: $\leq 1 \text{ mV}_{\text{rms}}$

Output current: max. 1 A continuous, short-circuit-proof

Combined displays of 20 V outputs

7-segment LED: 2 x 3-digit displays, each switchable for voltage and current (V, mA)

Resolution: 0.1V/1 mA

Display accuracy: ± 1 digit voltage/ ± 4 digit current

LED: current limit indication

Maximum limits

Reverse voltage: 25V, each output

Reverse current: 500 mA, each output

Voltage to ground: 100V, each terminal

Temperature control: If the inside temperature exceeds 75...80° C, the HM8040-3 will be turned off.

Miscellaneous

Safety class: Safety class I (EN61010-1)

Power supply (from mainframe):

1 x 8V

2 x 24V

1 x 5V

1 x 18V_{AC}

Power consumption, with HM8001-2:

max. 90 VA/75 W

(max. 110 VA/95 W, 5V output shorted)

Current output

of 2 HM8040-3 with HM8001-2: sum of all channels < 2 A

Operating temperature: 0 °C to +40 °C

Storage temperature: -20 °C to +70 °C

Max. relative humidity: < 80% (without condensation)

Dimensions (W x H x D): 135 x 68 x 245 mm

Weight: approx. 1.07 kg

Accessories supplied: Operator's Manual

Optional accessories:

HZ10S/R Silicone test lead

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