

Triple Power Supply HM8040-3



HM8040-3

Mainframe HM8001-2
required for Operation



- 2 x 0...20V/0.5A 1 x 5V/1A
- 3-Digit switchable Displays (Display Resolution 0.1V/1mA)
- Pushbutton for Activating/Deactivating all Outputs
- Adjustable Current Limiting and Electronic Fuse
- Low Residual Ripple and Low Noise

Silicone Test Lead HZ10R



Triple Power Supply (module) HM8040-3

All data valid at 23 °C after 30 minutes warm-up.

Outputs

2 x 0...20V/0,5A and 5V/1A 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: typ. 2 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 $\pm 0.5\text{V}$ screwdriver adjustment

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

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

Combined displays of 20V 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): 2 x 24 V/530 mA

1 x 5V/400 mA

2 x 18 V_{ac}/100 mA

($\Sigma = 40\text{W}$)

Current output of

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

Operating temperature: +5...+40 °C

Storage temperature: -20...+70 °C

Rel. humidity: 5...80% (non condensing)

Dimensions (W x H x D): 135 x 68 x 228 mm

Weight: approx. 1.07 kg

Accessories supplied: Operator's Manual

Recommended accessories:

HZ10S 5 x silicone test lead (measurement connection in black)

HZ10R 5 x silicone test lead (measurement connection in red)

HZ10B 5 x silicone test lead (measurement connection in blue)