STUD WELDING PRODUCTS, INC.

ARC 800

Technical Data Sheet





ARC 800

Stud Welding Unit for ARC stud welding according to current standards

Technical Data

Gas/Automation Series/Option

Welding range #4 to 1/2", dia. 14 ga to 3/8" (M3 to MR12, dia. 2 to 10 mm)

Welding material Mild steel, stainless steel

Welding rate 7 to 17 studs/min (depending on application and stud dia.)

Welding current 800 A

Welding time 5 to 1,000 msec

Primary power 230/460 V or 575 V, 3 phases, 50/60 Hz, 35 AT (alternative input voltages available)

Power source Transformer/Rectifier

Cooling type F (temperature controlled cooling fan)

Insulation class IP 23

Operational and storage

conditions

According to current standards

Dimension L x W x H 18.50" x 9.06" x 8.66" (470 x 230 x 220 mm) without handle

Weight 81.57 lbs (37 kg)

Order No. 230/460 V: 575V:

93-16-0702A (Gas) 93-15-0702A (Gas)

93-16-0704A (Gas/Automation) 93-15-0704A (Gas/Automation)

General Information

Application

Especially suitable for thicker sheets of about 2 mm or higher

Process variants

- Short cycle drawn arc welding
- Drawn arc welding

Special equipment

- Welding with ceramic ferrule (series)
- Welding with shielding gas (series)
- Automatic (optional)

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Advantages

Features

- Microcontroller for precise process times, optimal functional reliability and maximum operating convenience
- Function monitoring automatic function test following power-up; monitoring of all internal system functions
- Display of error codes on digital display
- Lift test for gap welding guns and welding heads

Structure

- Extremely easy to operate
- Compact
- Robust metal housing withstands rough treatment in shop and on site

Safety

- With integrated mains filter (protection against voltage peaks)
- Optimal for construction sites with large mains voltage fluctuations use even with critical voltage supply (- 10% + 10%)
- EMC test
- High-voltage test with log
- Retriggering lock-out prevents welding on a welding element that has already been set
- Thermal monitoring of transformer automatic shutdown in case of overheating
- Temperature-regulated ventilator reduces noise and dust in the stud welding unit (greater system reliability)
- Consistent separation of transformer and control unit protects electronic components against dust and thermal loading
- Control unit galvanically separated from welding lines high degree of functional safety
- Cooling-air tunnel channelling of cooling air to the transformer protects electronic components against dirt and dust
- · Optimal protection against external interferences
- Protection class IP 23
- Also permits operation outdoors

Welding

- **Display** infinitely adjustable power setting; easy monitoring of all functions via LED displays; display of welding and gas-preflow time (optional: pneumatic feed time for automation); control and monitoring of all system functions
- **Powerful** built-in power reserves
- Trouble-free changing of welding voltage polarity possible by reconnecting welding current and ground cables

Suitable stud welding guns/ -heads

- A 12
- PMH-6
- CA 08
- AI 06
- PAH-1 (only suitable for automatic version)
- KAH 412 (only suitable for automatic version)

Issue 03/07

(Technical data may change)

Check us out on the internet www.studweldprod.com or email info@studweldprod.com

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