



#### SC 2401

#### Stud Welding Unit

for short cycle drawn arc stud welding according to current standards

## **Technical Data**

Welding range Short Cycle: M3 to M5, dia. 2 to 5 mm

Welding material Mild steel, stainless steel

Welding rate 10 to 15 studs/min (depending on application and stud dia.)

Capacitance 99,000 µF

Welding current 800 to 2,200 A (by charging voltage)

Welding time 10 msec Energy 2,400 Ws

Charging voltage 70 to 220 V (stepless voltage regulation)

Primary power 230/115 V, 50/60 Hz, 10/16 AT

Power source Capacitor

Cooling type F (temperature controlled cooling fan)

Protection class IP 23

Operational and storage

conditions

According to current standards

Dimension L x W x H 510 x 180 x 250 mm (without handle)

Weight 26 kg

Order No. 91-10-2401

## **General Information**

## Application

• **ISO** – especially suitable for attaching cut-to-length ARC-ISO and Fiberfix pins; also material with high heat resistance; excellent for insulation applications in building construction and fire-resistant insulation (FRI)

## **Process variants**

· Short cycle drawn arc welding

## 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
- **Library function** automatic specification of charging voltage through selection of stud diameter according to welding range; fine adjustment via arrow keys

# SC 2401

#### **Technical Data Sheet**



#### Structure

- · Extremely easy to operate
- Compact
- Robust metal housing withstands rough treatment in shop and on site
- 230 V mains connection (instead of 400 V 3-phase current connection) optimal for construction sites since 3-phase current is not universally available

## Safety

- With integrated mains filter (protection against voltage peaks)
- Optimal for construction sites with large mains voltage fluctuations use even with critical voltage supply (- 25% + 20%)
- 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 and internal temperature of stud welding unit— automatic shutdown in case of overheating
- Temperature-regulated ventilator reduces noise and dust in the stud welding unit (greater system reliability)
- Optimal protection against external interferences
- Protection class IP 23
- Also permits operation outdoors

#### Welding

- **Display** infinitely adjustable power setting (charge reversal via set-point switch); easy monitoring of all functions via LED displays
- **Powerful** built-in power reserves
- · Trouble-free changing of welding voltage polarity possible by reconnecting welding current and ground cables
- Use of special capacitors (developed for stud welding)

#### Suitable stud welding gun

Al 06

Issue 04/08 (Technical data may change)