

SAV 876.17

ELECTRONIC POLARITY-REVERSING CONTROL UNIT

With integrated microcontroller and holding force control

APPLICATION

For electro permanent magnetic systems with 210 V or 360 V magnet voltage 30 A IMP max. magnetic voltage. Also suitable for retrofitting. Control with hand remote unit SAV 876.02-SE3, control elements integrated or machine-side PLC signals.

FUNCTION

- As pulse control for magnetising electro permanent magnetic chucks
- Control of the demagnetising cycle
- Optimised for all SAV electro permanent magnetic chucks
- Monitoring of the mains voltage, the own power components and all cables, including the magnet coil. Some internal components with redundant design
- Machine enable with dual-channel safety contact
- Chucking and releasing using redundant input signals with feedback after completed magnetising and demagnetising
- Holding force regulations using inverse BCD coding, 8 or 16 levels

PERFORMANCE CHARACTERISTICS

- Small and compact
- Easy to integrate into any machine
- User-friendly with LCD plain text display in English/German
- Easy menu selection using film keypad
- Chokes and filters are integrated
- Signal inputs and outputs indicated by LEDs
- Connectors for signal inputs and outputs
- Magnet connection with potential-free switching
- Reliable and safe operation
- Version in box with main switch, terminal strip and circuit breaker

ADVANTAGES

- Short-circuit resistant
- Fully electronic control and power board
- Additional potential-free switching relay for magnetic connection
- Extended diagnostics
- Earth connection test
- Very compact design
- Pre-programmed settings
- Individual programming options
- Short demagnetising period
- High demagnetising quality for single magnet systems
- Automatic supply frequency detection
- Function design and user guidance
- Developed based on TÜV criteria regarding electrical and functional safety as well as operational stability and EMC



CONFORMITY AS PER DIRECTIVES

- 2014/35/EU Low Voltage Directive
- 2014/30/EU Electromagnetic Compatibility Directive
- 2011/65/EU RoHS

OPERATIONAL SAFETY

- Category 2
- Performance level c
- MTBF is 30.45 years

OPTIONAL

The control unit in the control box can be equipped with a heavy-duty power connector. Socket with cap on the magnet, 5 m cable with connector on the control unit. Cables and connectors are 8-pin, suitable for control unit sizes of max. 60 A x 2.
Ordering designation: SAV 876.12-SS9

OPTIONAL

If control unit and magnet are used for palletising, an optional parking station prevents movement of the pallet while the connector is inserted.
Ordering designation: SAV 876.12-PS9

HEAVY-DUTY POWER CONNECTOR WITH QUICK-RELEASE Optional (surcharge applies)

Easy handling of the plug-in connection

