



The pole reversal control unit type 755 was designed according to state-of-the-art control technologies and is used for controlling electro magnets up to 6 amps and electro-permanent magnets up to 10 amps.

The short-circuit proof design offers an additional safety-relevant perspective for approaching magnetic clamping systems. The current control allows highest accuracy by reproducible and constant magnetic forces over a large temperature range, independent of mains fluctuations. A high switching dynamics ensures fast switching on and off operations and fast demagnetization.

### Connection values for various output voltages:

Type	Magnetomotive force	max. nominal current magnet	Use for
755-EL24/6 *	24 V DC	6 A DC	Electro magnets (continuous current)
755-EL110/6 *	110 V DC	6 A DC	
755-EL220/6 *	220 V DC	6 A DC	
755-EP210/10 *	210 V DC EP	10 A DC	Elektro-permanent magnets (pulsed operation)

\* For compliance with the EMC directives the use of a line reactor is necessary!

### Technical data:

Protection system: IP 20 for built-in type  
 Dimensions: w:142.5; h:202.5; d:136 mm  
 Weight: approx. 2.8 kg  
 perm.temperature range: 0°C ... 40°C  
 EMC: EN 61000-6-2 / EN61000-6-4  
 Operating mode: Continuous operation  
 For the connection of the magnet use a shielded cable.  
 Available clamping force curves: 6, 8 or 16 steps.

### Connection values:

Mains voltage: 230 V AC (+/-10%)  
 Mains frequency: 50 / 60 Hz

### Short-circuit behaviour:

The pole reversal control unit is disconnected automatically in case of a short-circuit. In case of an overload the output current is limited to the nominal current of the device.

### Input signals:

Clamping (SPA IN)  
 Pole reversal (UMP IN)  
 Switch off without pole reversal (OFF IN)  
 Quitt connected with input „OFF IN“  
 4 inputs for selecting the clamping force levels RS 232 interface for PC communication

### Output signals:

Magnet clamped (SPA OUT)  
 Pole reversal magnet (UMP OUT)  
 Fault (Error or O.K.)  
 All output signals are available as potential-free contacts and 24V signals.

### Program selection:

Use the coding switch on the front panel to select up to 16 pole reversal programs.

### Accessories:

Monitor program for setting the operating parameters.