

The new generation of pole-reversal control units: Type 754 – short-circuit proof!

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|----------------------|--|
| Device type: | 754 |
| Housing: | Rack |
| Protection system: | IP 20 |
| Dimensions: | EL: w: 217, h: 330, d: 275 mm EP: w: 187, h: 330, d: 275 mm |
| perm. temp. range: | 0° C ... 40° C |
| Installation height: | max. 1000 mNN If installed at larger heights the possible output power is reduced |
| EMC: | according to EN 61000-6-2 EN 61000-6-4 use a shielded cable for connecting the magnet |
| Operating mode: | Continuous operation |



Connection values:

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|---------------------|--|
| Supply voltage: | 3 x 400 V AC (+/-10%) (L1, L2, L3, PE) |
| Mains frequency: | 50 / 60 Hz |
| Input current: | depends on output power |
| Start-up behaviour: | The transient current pulse is limited by automatic filter loading |

Connection values for various output voltages:

| Device type | Magnetomotive force | max. nominal current magnet | Use for |
|--------------|---------------------|-----------------------------|--|
| 754-EL360/16 | 360 V DC | 16 A DC | Electromagnets (cont. current) |
| 754-EL220/16 | 220 V DC | 16 A DC | |
| 754-EL110/16 | 110 V DC | 16 A DC | |
| 754-EP360/16 | 360 V DC | 16 A DC | Elektro permanent magnets (pulsed operation) |
| 754-EP210/16 | 210 V DC | 16 A DC | |
| 754-EL360/30 | 360 V DC | 30 A DC | Electromagnets (cont. current) |
| 754-EL220/30 | 220 V DC | 30 A DC | |
| 754-EL110/30 | 110 V DC | 30 A DC | |
| 754-EP360/30 | 360 V DC | 30 A DC | Elektro permanent magnets (pulsed operation) |
| 754-EP210/30 | 210 V DC | 30 A DC | |

Short-circuit behaviour: The pole-reversal control unit is short-circuit proof. In case of overload the output current is limited to the nominal current of the device. In case of short-circuit the device is switched off.

Input signals:

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|----------------------|----------|
| Clamping signal | (SPA IN) |
| Pole-reversal signal | (UMP IN) |
| OFF signal | (OFF IN) |

only active for electromagnets

| | |
|-------------|------------|
| Quit signal | (Quitt IN) |
|-------------|------------|

to acknowledge fault messages

4 inputs for holding force adjustment (HK 1 IN ... HK 4 IN)
4 optional inputs for special functions.
RS 232 interface for PC communication

Output signals:

| | |
|-----------------------------|-----------|
| Magnet clamped signal | (SPA OUT) |
| Pole reversal magnet signal | (UMP OUT) |
| USG fault signal | (Fault) |

4 optional outputs for special functions.

Program selection: Use the decoding switch on the front panel to select up to 16 pole reversal programs. Use the RS 232 interface and the optional monitoring program to define a user-defined pole reversal program for up to 100 cycles.

Holding force levels: You can select between 6, 8 or 16 levels. Use the optional monitoring program to change the level.

Accessories: A monitoring program (for Windows NT/2000/XP) for PC communication via RS 232 interface. This allows free configuration of all operational parameters (remote control can be implemented upon request).