

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

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:

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:

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

only active for electromagnets

Quit signal	(Quitt IN)
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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).