

- developed for applications for generating safety extra-low voltage (SELV) or functional extra-low voltage (PELV)
- high starting current up to 16 A for electromagnets; up to 25 A for electro-permanent magnets with an extremely compact construction
- very short switching times
- optionally current-regulated or voltage regulated operation
- Pre-selection of up to 4 freely programmable parameter sets for the magnet by optional control inputs
- Very fine resolution of the holding force levels
- the digital outputs can connect currents up to 1.5 A totally
- thanks to the small construction, the device is suitable for fitting on a standard mounting rail in a switch cabinet of vertical construction
- Configuration via USB and monitor program (optional)

To switch off electro-permanent magnets, or to reduce the residual magnetism for electromagnets, reversing of poles is necessary. Here a magnetic field with changing polarities and decreasing intensity is generated. This process reduces the residual magnetism to a minimum. The pole-reversal control unit 757 controls the necessary currents / voltages using the magnet. A basic setting of the electrical rated values is carried out when the pole-reversal control unit 757 is shipped. If required, the pole-reversal process can be changed by selecting another pole-reversal program. In addition, it is possible to change the pole-reversal programs using the optional monitor program.

Technical data:

- Connection is made to a suitable (SELV/PELV) AC / DC power supply (for example, power supply Puls CPS20.481 or CP10.481)
- Acc. to EMC and Low Voltage Directive
- Input voltage: 26 V DC to 56 V DC
- Output voltage: up to 50 V DC (depending on the input voltage)
- Output current: electromagnets max. 16 A
electro-permanent magnets max. 25 A (16 A per conductor)
- Efficiency: approx. 98 %
- S.C. behavior: has an overcurrent cutoff and short-circuit protection
- Signal inputs: 12 inputs
24 V DC
2 mA per input
- Signal outputs: 5 outputs
high side switch
24 V, max. 1.5 A (in total for all 5 outputs)
- Internal supply: 24 V, max. 1,5 A
- Pole-reversal programs: 16, freely programmable
- Holding force levels: up to 256 levels (16 freely programmable, interpolated)
- Interface: USB
- Protection class: IP 20 (switch cabinet integration)
- Dimensions (WxHxD): 22,5 mm x 126 mm x 102,5 mm
- Weight: 160 g
- Ambient temperature: permissible in operation 0 °C to 40 °C
permissible during storage and transport -20 °C to 70 °C
- Atm. humidity: max. 90 %, condensation not permitted
- Power loss: max. 10 W
- Max. installation height: 1000 m MSL (In case the machine is operated at higher altitudes, the possible output will be reduced)

Accessories:

Control unit

For manual control of the pole-reversal control unit, different control units of type 744 are available. They are equipped with a coding switch to adjust the holding force and illuminated keys to clamp and unclamp the magnet. Keys and coding switch are also available as installation components.

Monitor program

With the additional "USG Monitor" software, the configuration options for the pole-reversal control unit are extended considerable. The following options are available, for example:

- selecting the 6-step, 8-step, and 16-step holding force curve and changing the freely-programmable holding force curve
- changing the pole reversal programs
- activating special options



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