

## High voltage power supply B0/34: Specification of a customer-specific design

### Output voltage

By potentiometer adjustable ionizer voltage:

- from 7,8kV to 12,2kV (standard)
- from \_\_\_\_\_ kV<sup>1</sup> to \_\_\_\_\_ kV<sup>2</sup>

- positive output voltage (standard)
- negative output voltage

ionizer/collector voltage ratio:

- 2:1 (standard)
- 3:2
- 3:1
- 4:1
- 3:4

### Overcurrent shutdown

- Overcurrent shutdown by a sum current of 6 mA (standard)
- Overcurrent shutdown by a sum current of \_\_\_\_\_ mA

- Device shutdown after 80 overcurrent shutdowns. (standard)
- Device shutdown after \_\_\_\_\_<sup>3</sup> overcurrent shutdowns.

- Reset error counter after 5s ( $t_{\text{RESET\_Fehlerzähler}}$ ) (standard)
- Reset error counter after \_\_\_\_\_s ( $t_{\text{RESET\_Fehlerzähler}}$ )

- Turn-off time  $t_{\text{aus}}$  after overcurrent shutdown: 1s (Standard)
- Turn-off time  $t_{\text{aus}}$  after overcurrent shutdown: \_\_\_\_\_s

- Smooth startup time  $t_{\text{Anlauf}}$ : 1s (standard)
- Smooth startup time  $t_{\text{Anlauf}}$ : \_\_\_\_\_s

<sup>1</sup> Ionizer voltage must be at least 6kV.

<sup>2</sup> Ionizer voltage must not exceed 24kV.

<sup>3</sup> This value must not exceed 255.

## Stepping

Should the device contain a stepper?

- no (standard)
- yes

Number of errors, which cause reducing of output voltage by one step:

- 7 (standard)
- \_\_\_\_\_

Time span  $t_{\text{RESET\_StepperFehlerzähler}}$ , which causes a reset of the stepper error counter if no overcurrent error occurs:

- 5s (standard)
- \_\_\_\_\_ s

Time span  $t_{\text{StepUp}}$ , which causes increasing of output voltage by one step if no overcurrent error occurs:

- 20s (Standardstepper)
- \_\_\_\_\_ s

Number of steps:

- 2
- 4
- 8 (standard)

Voltage difference between two steps:

- 100V (stepper:)
- \_\_\_\_\_ V

### LED-function

Colour of LED 1 (control):

- green (Standard)
- red
- yellow
- white
- blue

Function of LED 1 (control):

- standard (see manual)
- differing function (e.g. blinking in specific situations, displaying of the stepper state, ...)

Description of the desired LED-function:

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Colour of LED 2 (service):

- green
- red (Standard)
- yellow
- white
- blue

Function of LED 2 (service):

- standard (see manual)
- differing function (e.g. blinking in specific situations, other blink frequency, blink pattern, ...)

Description of the desired LED-function:

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Should the device contain a third LED?

- no (standard)
- yes

Colour of LED 3 (Stepper):

- green
- red
- yellow (Standard)
- white
- blue

Function of LED 3 (Stepper):

- standard (see manual)
- differing function (e.g. precise signalling of stepper state by blinking, pollution signaling, ...)

Description of the desired LED-function:

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### **Pollution detection**

Should the device contain a pollution detection?

- no (standard)
- yes

Current threshold (% of max. output current):

- 90% (standard)
- \_\_\_\_%

Time span during current drain must be greater than current threshold to report filter pollution:

- 10s (standard)
- \_\_\_\_s

Time span during current drain must be smaller than current threshold to leave filter pollution mode:

- 10s (standard)
- \_\_\_\_s

**Output function**

- Use relay for output K1 (standard)
- Configure output K1 to connect a LED directly / Output resistance \_\_\_\_\_  $\Omega$  (bei 5V)

Function of output K1:

- high voltage available (standard)
- differing function

Description of the desired function:

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- Use relay for output K2 (standard)

Function of output K2:

- Device turned off (standard)
- differing function

Description of the desired function:

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**Top cover print**

Should the top cover imprinted with a special label?

- yes
- no (standard)