

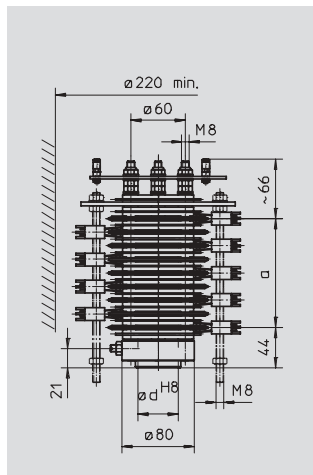
# Slip ring bodies

Slip ring body ES18 25 A / 630 V (690 V)<sup>1)</sup>

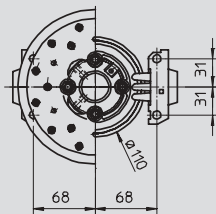


## Electrical data

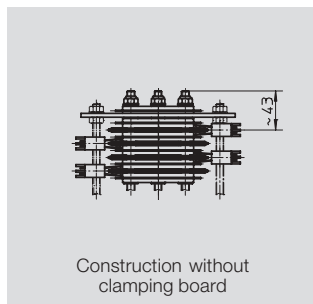
- Voltage: max. 630 V<sub>~</sub>= (690 V)<sup>1)</sup>
  - according to DIN VDE 0110
  - overvoltage category III
  - insulating material group II
  - degree of contamination 3
- Current: mA - 25 A, at max. 30°C and 100% duty cycle
- Slip rings:
  - ø 102 mm, brass
  - distance between rings 15 mm
- Current collector:
  - support with 2 contact springs, each with three bronze coal rivets
  - connecting flat plug 6.3 (DIN 46244) for flat socket 6.3 (DIN 46247)
- Protection class: IP 00



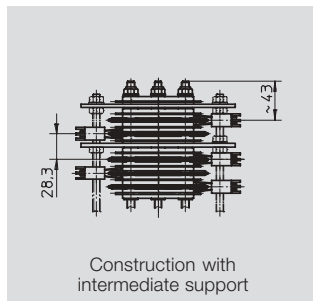
$$a = (1/2 \text{ number of poles} - 1) \times 15$$



Standard type



Construction without clamping board



Construction with intermediate support

## Order example:

**ES18/F45-24**

Slip ring body  
Type 18, 23-pole + PE  
Flange diameter  
 $d_{1+H8} = 45 \text{ mm}$

## Control and data transmission

- Ring with multi-layer coating (ML) and current collector bronze 25 mA at 24 V and >
- Ring with multi-layer coating (ML) and current collector
  - silver (Ag) 0 - 20 mA at min. 0 - 10 V
  - digital max. 500 kBaud
  - measured data transmissions and video signals require consultation

## Wiring and max. number of poles

- Standard construction:
  - up to 4 rings without clamping board
  - 6 to 36 rings on a clamping board mit 2.5 mm<sup>2</sup>
  - 37 to 48 rings without clamping board with strand wiring 1.5 mm<sup>2</sup>, 2 m from flange
- Special construction:
  - up to 48 rings on a clamping board mit 1.5 mm<sup>2</sup>
  - up to max. 100 rings without clamping board with strand wiring 1 mm<sup>2</sup>, 2 m from flange
  - 10 rings or more with supporting plate
  - 48 rings or more with intermediate support

## More technical details

- Rotational speed for
  - standard construction (MS-rings and bronze coals): 100 U/min
  - data (ML-rings): 30 U/min
- Insulation:
  - insulating parts PA 6, glass fibre reinforced
- Ambient temperature:
  - -35°C to max. +50°C
  - at > 50°C the max. current load has to be reduced accordingly
  - for higher temperature please inquire
- Position of installation:
  - standing
  - other positions on request
- Flange diameter  $d_{1+H8}$ :
  - 45 mm (standard)
  - 20, 30 and 35 mm on request

## Volume of delivery

- Without brush bolts
- Current collectors loosely enclosed
- Brush bolts on request

<sup>1)</sup> The voltages apply for slip ring bodies, installed in systems (parts of systems) that are not directly fed by the low-voltage net (VDE 0110-1/1997-04: 2.2.1.1.2, table 4). On systems (part of systems) with direct feeding from the low-voltage net, the values in brackets are permissible for alternating voltage (VDE 0110-1/1997-04: 2.2.1.1.1, table 3b).