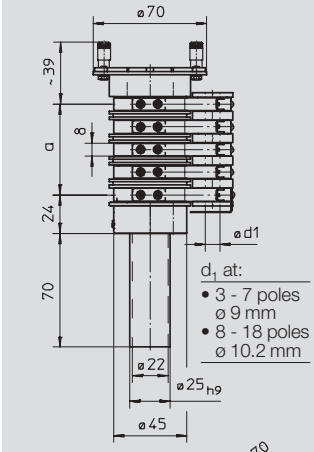
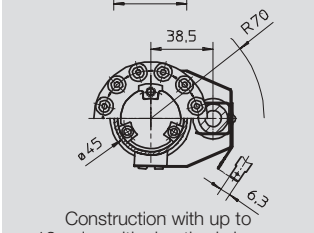
Slip ring bodies

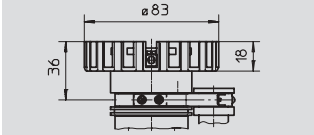
Slip ring body ES45/1 25 A / 400 V (415 V)[1)]

Electrical data
- Voltage:
  - max. 400 V~= (415 V)[1)]
  - according to DIN VDE 0110
  - overtension category III
  - insulating material group II
  - degree of contamination 3
- Current: mA to 25 A, at max. 30°C and 100% duty cycle
- Slip rings:
  - ø 45 x 8 mm, brass
  - distance between rings 14 mm
- Current collector:
  - support with 2 pressed-on coals 20 x 8 mm
  - connecting flat plug 6.3 (DIN 46244) for flat socket 6.3 (DIN 46247)
- Protection class: IP 00





Construction with up to 12 poles with sheathed clamps



Construction 13-18 poles with terminal clamps

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
- Max. 18 (incl. PE) completely wired with 2.5 mm² on a clamping board
- up to 12 rings, connection to sheathed clamps
- 13 to 18 rings, connection to terminal clamps

More technical details
- Rotational speed: max. 100 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
- Axle tube: $d_a = 25_{h9}$ mm

Volume of delivery
- Complete slip ring body with current collectors
- Insulator
- Axle tube (secure on site against torsion with 2 threaded pins M5, DIN 914)
- Without brush bolt

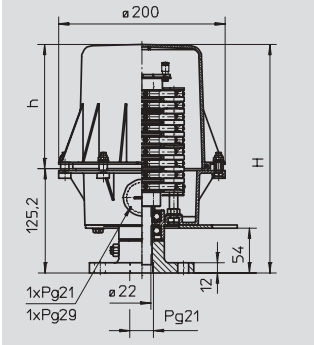
1) The voltages apply for slip ring bodies, installed in systems (parts of systems) that are not directly fed by the low-voltage net (VDE 0110-1/1997-04: 2.2.1.1.2, table 4). On systems (part of systems) with direct feeding from the low-voltage net, the values in brackets are permissible for alternating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

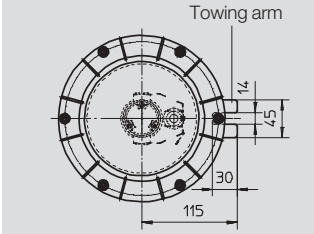
Order example:
ES45/1/R22-04
Slip ring body
Type 45/1 with tube
d_{inside} = 22 mm
3-pole + PE

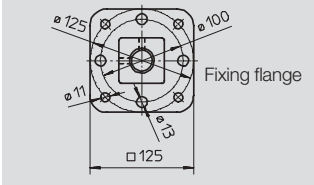
Enclosed slip ring body GS45/1 25 A / 400 V (415 V)[1)]

Electrical data
- According to type ES45/1
- Exception:
  - protection class: IP 65

Wiring and max. number of poles
- According to type ES45/1







h_2 [mm]	H [mm]	max. number of poles (incl. PE) standard	with heating
90	215	5	-
150	275	9	4
190	315	12	7
280	405	18	13

More technical details
- Rotational speed: max. 100 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 inquiry
- Corrosion protection:
  - steel parts galvanized and powdercoated RAL 1012
- Glands:
  - in the fixing flange Pg 21
  - through-holes in the housing bottom part for Pg 21 and Pg 29
- Reinforcing plate for brush bolts for 12 poles or more

Option
Reinforced bearing, Vent plug, Heating, Tube or rotary transmission

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Order example:
GS45/1KS-04
Enclosed slip ring body
Type 45/1 with plastic housing
3-pole + PE