

### Input data

|                       |       |                             |
|-----------------------|-------|-----------------------------|
| System of measurement |       | Metric                      |
| Input type            |       | Coupling for electric motor |
| Input speed           | [rpm] | 1400                        |
| Output speed          | [rpm] | 200                         |
| Ratio (i=)            |       | 7                           |
| Frequency             | [Hz]  | 50                          |
| Input options         |       | IEC                         |
| Requested input power | [kW]  | 15                          |
| Service factor        |       | 1.7                         |
| Rated Power P1        | [kW]  | 24.94                       |

### Output data

#### Gear unit **F RS 150 PC 7 160 B5 AC 55 B3**

|                     |                     |                          |
|---------------------|---------------------|--------------------------|
| Type                |                     | RS - Worm speed reducers |
| Input type          |                     | F (Elastic coupling)     |
| Size                |                     | 150                      |
| Ratio (i=)          |                     | 7                        |
| Input flange        |                     |                          |
| Mounting position   |                     | B3                       |
| Input speed         | [rpm]               | 1400                     |
| Output speed        | [rpm]               | 200                      |
| Rated output torque | [Nm]                | 637.46                   |
| Service Factor      |                     | 1.7                      |
| Efficiency          |                     | 0.89                     |
| Inertia moment      | [kgm <sup>2</sup> ] | 0.008174                 |

#### Gear unit configuration

|              |                     |
|--------------|---------------------|
| Output shaft | Hollow output shaft |
| Fixing       | Shaft mounting      |
| Version      | PC                  |

#### Output radial and axial loads

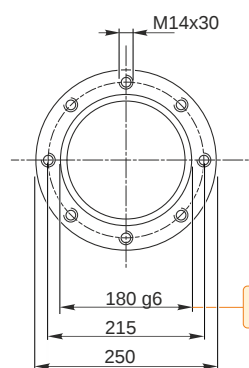
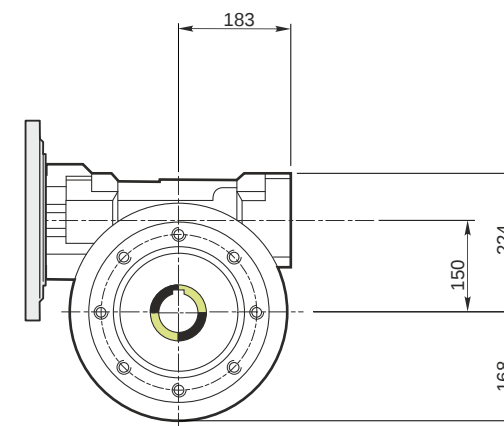
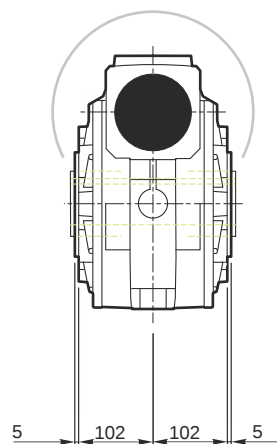
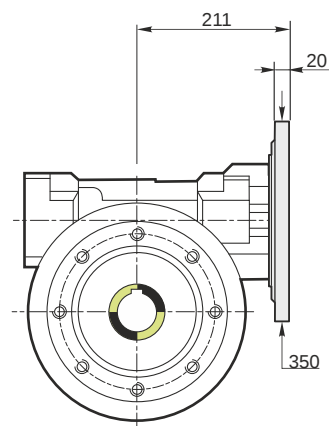
|                                   |     |      |
|-----------------------------------|-----|------|
| Ball bearings output radial load  | [N] | 6500 |
| Taper bearings output radial load | [N] | 9000 |
| Ball bearings output axial load   | [N] | 1300 |
| Taper bearings output axial load  | [N] | 1800 |

#### Accessories

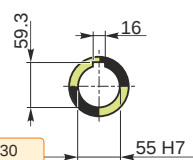
|                     |       |
|---------------------|-------|
| Hollow output shaft | AC 55 |
|---------------------|-------|

#### Electric motor coupling

|          |      |        |
|----------|------|--------|
| Size     |      | 160 L4 |
| Poles n. |      | 4      |
| Power    | [kW] | 15     |

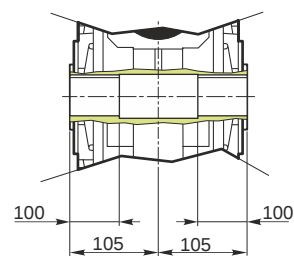


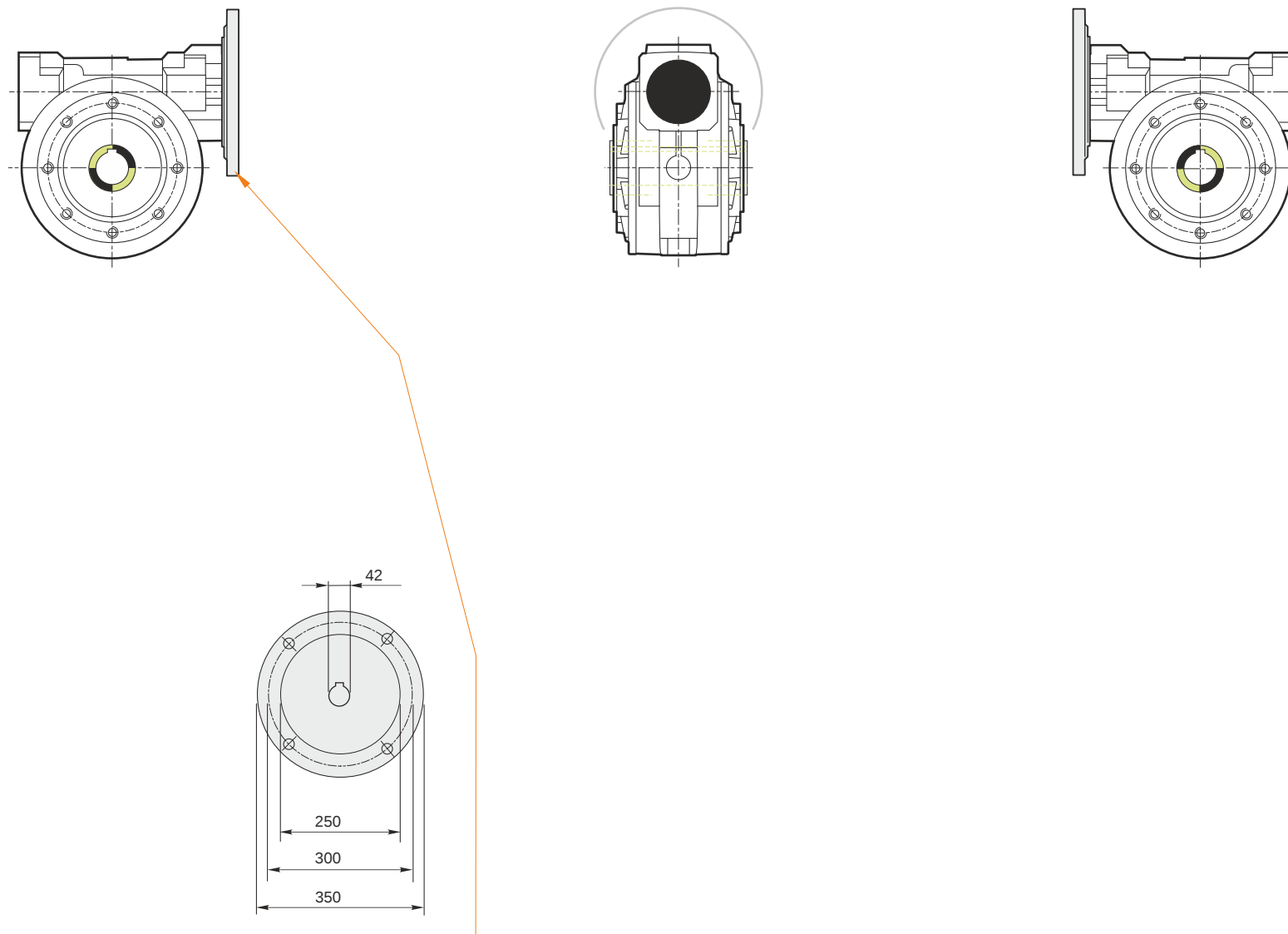
*Hollow output shaft*



179.986  
179.961

55.030  
55.000

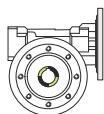




**F RS 150 PC 7 160 B5 AC 55 B3**

## Mounting positions

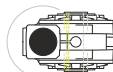
B3



B6



B7



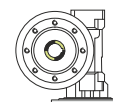
B8



V5



V6



4.4



← Oil quantity [litres]

Lubricant type: Long life synthetic oil ISO VG320

## Direction of rotation



## Weight

Gear unit [kg] 80

## Gearing data

Axial module 8.25  
Number of starts 4  
Lead angle 25° 33'  
Pressure angle 20°

## Backdriving

Static back-driving  
Quick back-driving  
Dynamic back-driving