

### Input data

|                       |       |                             |
|-----------------------|-------|-----------------------------|
| System of measurement |       | Metric                      |
| Input type            |       | Coupling for electric motor |
| Input speed           | [rpm] | 1400                        |
| Output speed          | [rpm] | 140                         |
| Ratio (i=)            |       | 10                          |
| Frequency             | [Hz]  | 50                          |
| Input options         |       | IEC                         |
| Requested input power | [kW]  | 4                           |
| Service factor        |       | 1.1                         |
| Rated Power P1        | [kW]  | 4.57                        |

### Output data

#### Gear unit F RS 85 PC 10 112 B14 AC 32 B3

|                     |                     |                          |
|---------------------|---------------------|--------------------------|
| Type                |                     | RS - Worm speed reducers |
| Input type          |                     | F (Elastic coupling)     |
| Size                |                     | 85                       |
| Ratio (i=)          |                     | 10                       |
| Input flange        |                     | B14                      |
| Mounting position   |                     | B3                       |
| Input speed         | [rpm]               | 1400                     |
| Output speed        | [rpm]               | 140                      |
| Rated output torque | [Nm]                | 234.66                   |
| Service Factor      |                     | 1.1                      |
| Efficiency          |                     | 0.86                     |
| Inertia moment      | [kgm <sup>2</sup> ] | 0.000413                 |

#### Gear unit configuration

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

#### Output radial and axial loads

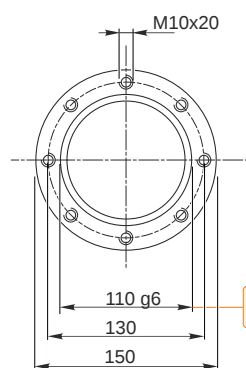
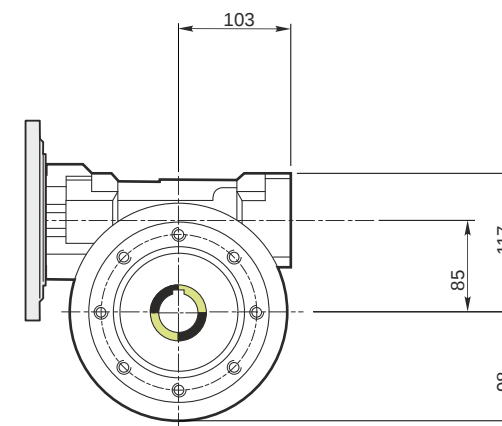
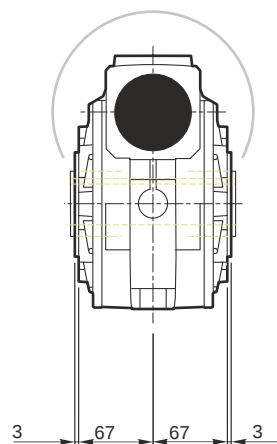
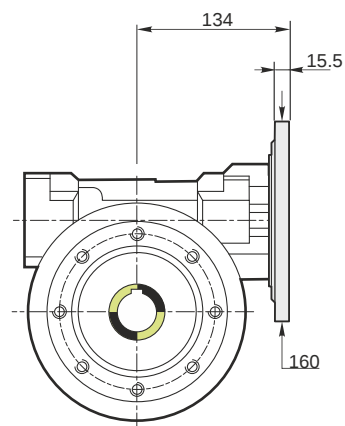
|                                   |     |      |
|-----------------------------------|-----|------|
| Ball bearings output radial load  | [N] | 3700 |
| Taper bearings output radial load | [N] | 4600 |
| Ball bearings output axial load   | [N] | 740  |
| Taper bearings output axial load  | [N] | 920  |

#### Accessories

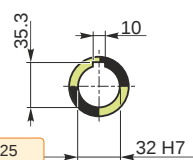
|                     |       |
|---------------------|-------|
| Hollow output shaft | AC 32 |
|---------------------|-------|

#### Electric motor coupling

|          |      |        |
|----------|------|--------|
| Size     |      | 112 A4 |
| Poles n. |      | 4      |
| Power    | [kW] | 4      |

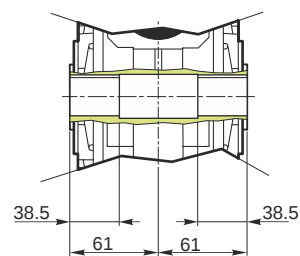


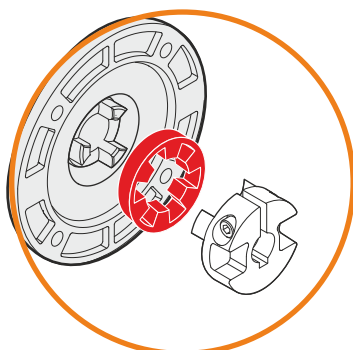
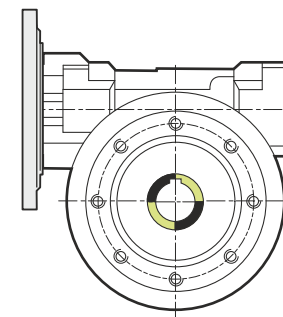
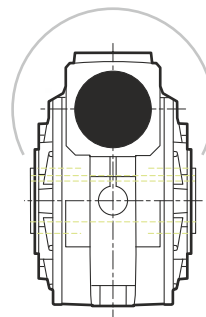
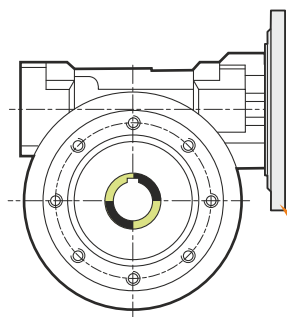
*Hollow output shaft*



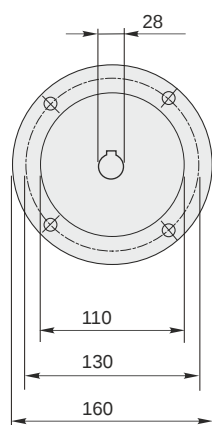
109.988  
109.966

32.025  
32.000



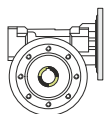


This gear unit is provided with an elastic coupling motor fitting

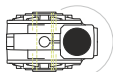


## Mounting positions

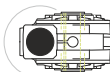
**B3**



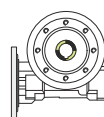
**B6**



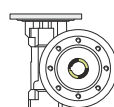
**B7**



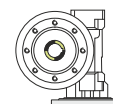
**B8**



**V5**



**V6**



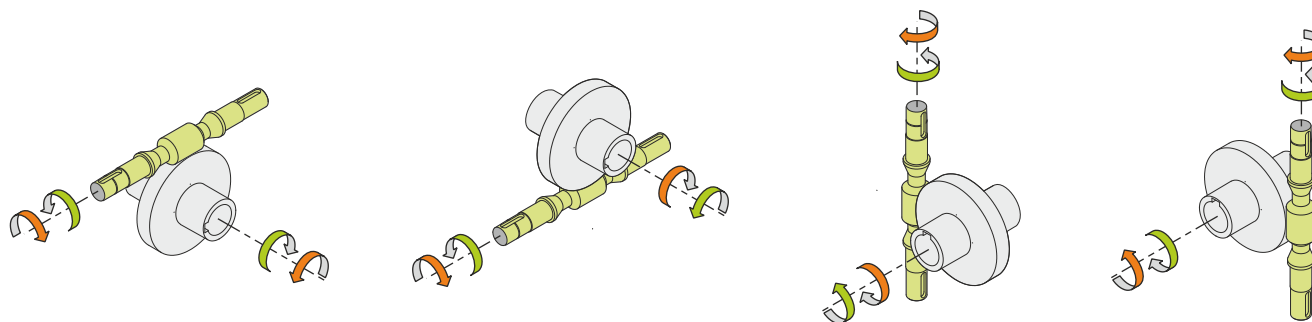
0.6



← Oil quantity [litres]

Lubricant type: Long life synthetic oil ISO VG320

## Direction of rotation



## Weight

Gear unit [kg] 13.5

## Gearing data

|                  |         |
|------------------|---------|
| Axial module     | 4.4     |
| Number of starts | 3       |
| Lead angle       | 19° 09' |
| Pressure angle   | 20°     |

## Backdriving

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