

### Input data

System of measurement		Metric
Input type		Coupling for electric motor
Input speed	[rpm]	1400
Output speed	[rpm]	70
Ratio (i=)		20
Frequency	[Hz]	50
Input options		IEC
Requested input power	[kW]	2.2
Service factor		1.3
Rated Power P1	[kW]	2.88

### Output data

#### **Gear unit** F RS 85 PC 20 100 B14 AC 32 B3

Type		RS - Worm speed reducers
Input type		F (Elastic coupling)
Size		85
Ratio (i=)		20
Input flange		B14
Mounting position		B3
Input speed	[rpm]	1400
Output speed	[rpm]	70
Rated output torque	[Nm]	246.12
Service Factor		1.3
Efficiency		0.82
Inertia moment	[kgm <sup>2</sup> ]	0.000357

#### **Gear unit configuration**

Output shaft		Hollow output shaft
Fixing		Shaft mounting
Version		PC

#### **Output radial and axial loads**

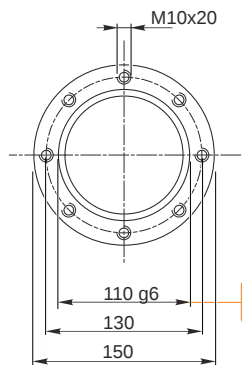
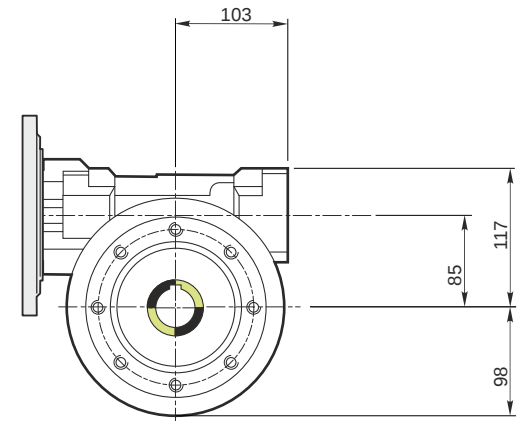
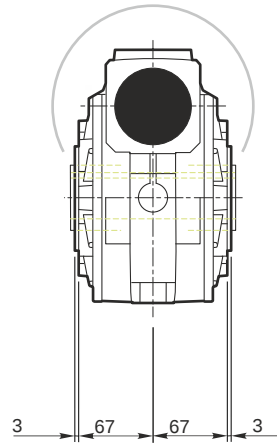
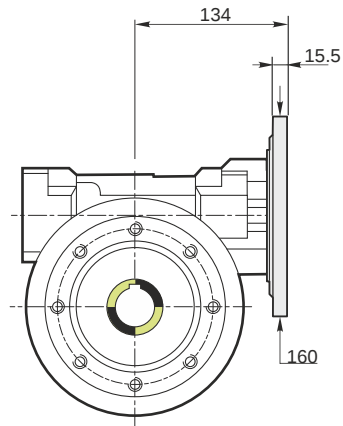
Ball bearings output radial load	[N]	4700
Taper bearings output radial load	[N]	6300
Ball bearings output axial load	[N]	940
Taper bearings output axial load	[N]	1260

#### **Accessories**

Hollow output shaft		AC 32
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#### **Electric motor coupling**

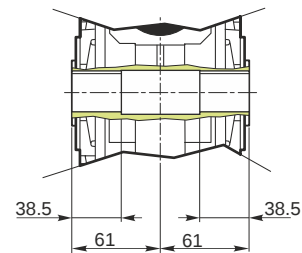
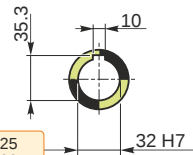
Size		100 A4
Poles n.		4
Power	[kW]	2.2



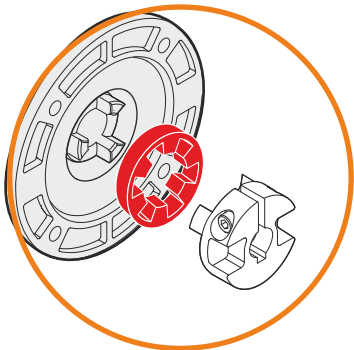
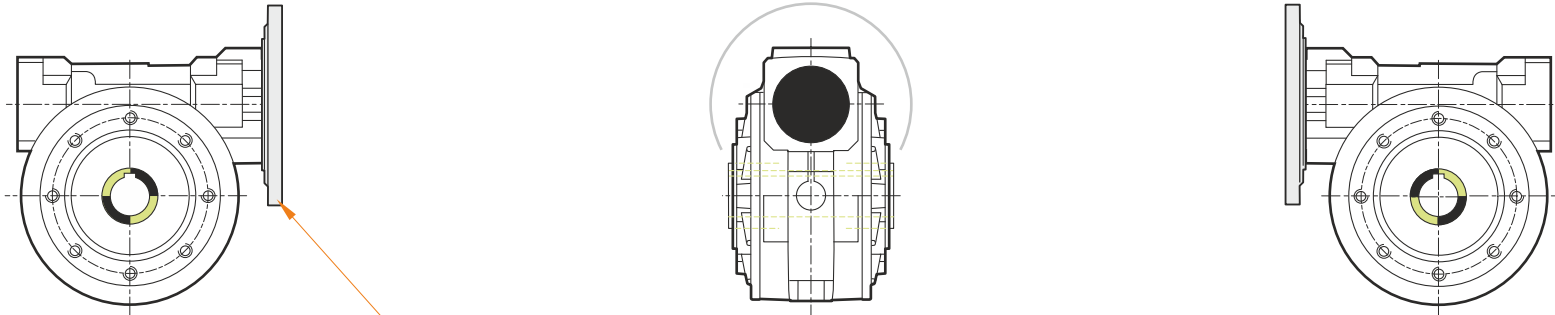
109.988  
109.966

32.025  
32.000

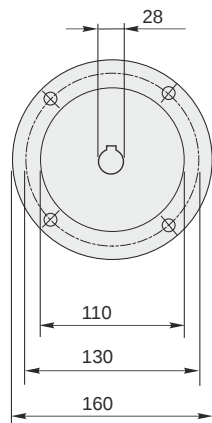
*Hollow output shaft*



**F RS 85 PC 20 100 B14 AC 32 B3**

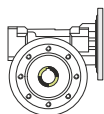


This gear unit is provided with an elastic coupling motor fitting

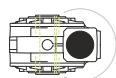


### Mounting positions

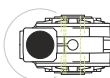
**B3**



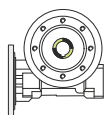
**B6**



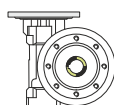
**B7**



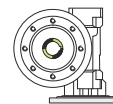
**B8**



**V5**



**V6**



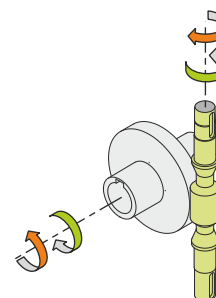
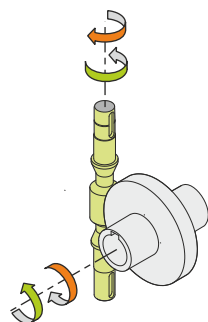
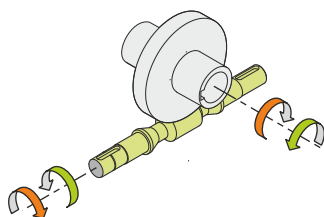
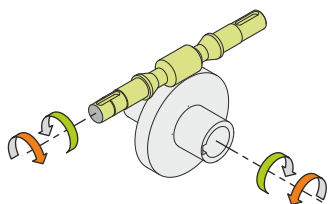
0.6



← Oil quantity [litres]

Lubricant type: Long life synthetic oil ISO VG320

### Direction of rotation



### Weight

Gear unit [kg] 13.5

### Gearing data

Axial module	3.4
Number of starts	2
Lead angle	11° 18'
Pressure angle	20°

### Backdriving

Variable static self-locking  
Quick back-driving in case of vibrations  
Dynamic back-driving