

### Input data

System of measurement		Metric
Input type		Coupling for electric motor
Input speed	[rpm]	1400
Output speed	[rpm]	35
Ratio (i=)		40
Frequency	[Hz]	50
Input options		IEC
Requested input power	[kW]	1.5
Service factor		1.1
Rated Power P1	[kW]	1.65

### Output data

#### Gear unit **F RT 85 B3 40 90 B14 AC 32**

Type		RT - Worm speed reducers
Input type		F (Elastic coupling)
Size		85
Ratio (i=)		40
Input flange		B14
Input speed	[rpm]	1400
Output speed	[rpm]	35
Rated output torque	[Nm]	294.69
Service Factor		1.1
Efficiency		0.72
Inertia moment	[kgm <sup>2</sup> ]	0.000344

#### Gear unit configuration

Output shaft		Hollow output shaft
Fixing		Universal
Version		B3

#### Output radial and axial loads

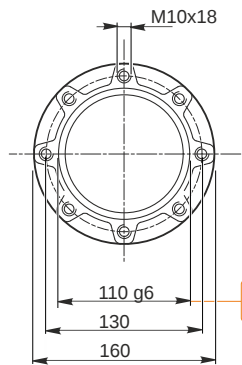
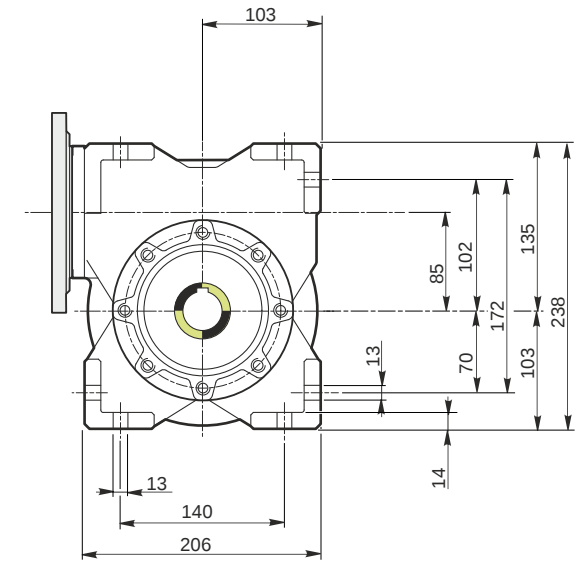
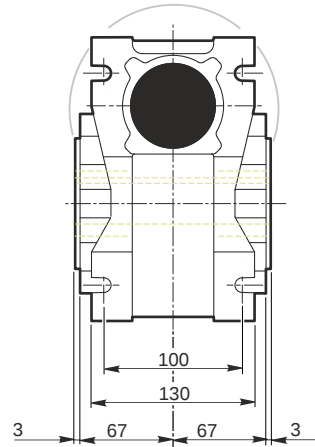
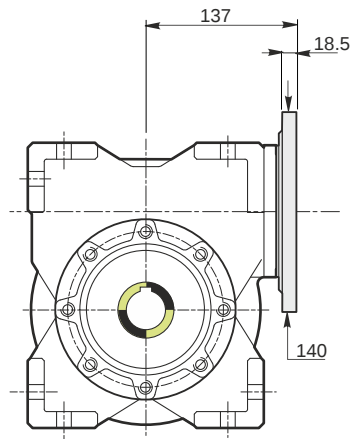
Ball bearings output radial load	[N]	5500
Taper bearings output radial load	[N]	7300
Ball bearings output axial load	[N]	1100
Taper bearings output axial load	[N]	1460

#### Accessories

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

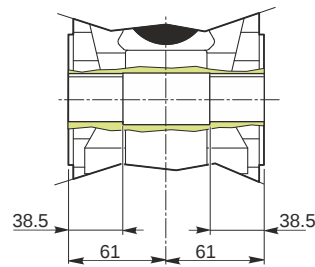
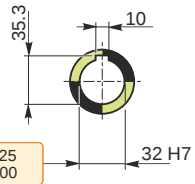
Size		90 L4
Poles n.		4
Power	[kW]	1.5

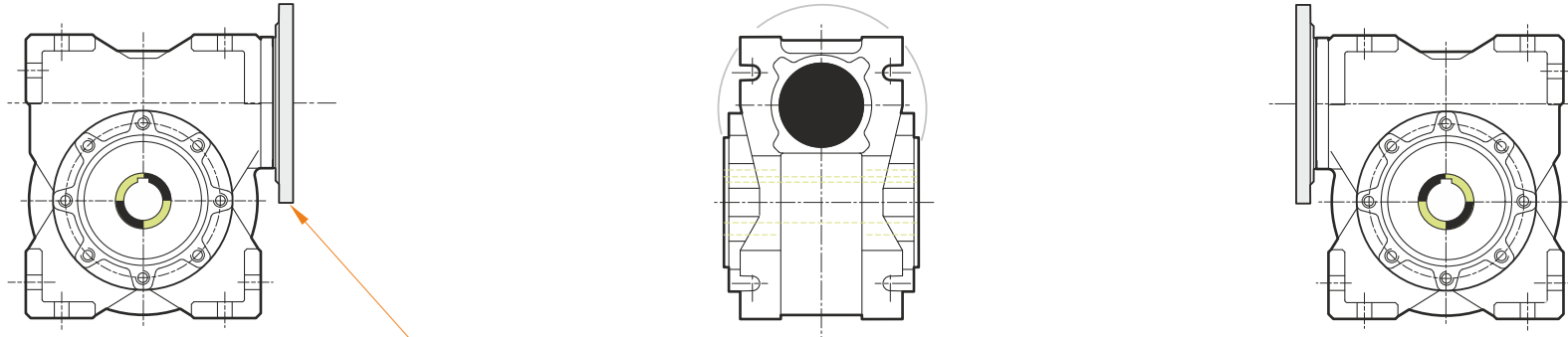


Hollow output shaft

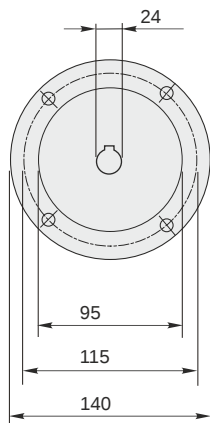
109.988  
109.966

32.025  
32.000



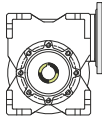


This gear unit is provided with an elastic coupling motor fitting

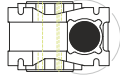


**Mounting positions**

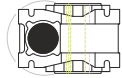
**B3**



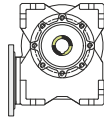
**B6**



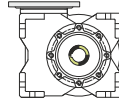
**B7**



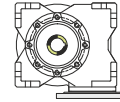
**B8**



**V5**



**V6**



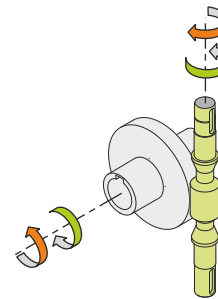
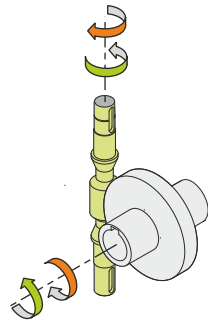
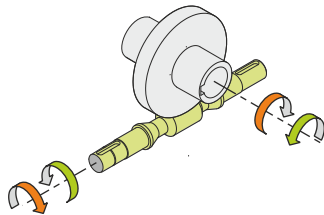
0.6



← Oil quantity [litres]

Lubricant type: Long life synthetic oil ISO VG320

**Direction of rotation**



**Weight**

Gear unit [kg] 13.5

**Gearing data**

Axial module	3.4
Number of starts	1
Lead angle	5° 52'
Pressure angle	20°

**Backdriving**

Static self-locking  
Slow back-driving in case of vibrations  
Low dynamic back-driving