

Input data

System of measurement		Metric
Input type		Coupling for electric motor
Input speed	[rpm]	1400
Output speed	[rpm]	14
Ratio (i=)		100
Frequency	[Hz]	50
Input options		IEC
Requested input power	[kW]	1.1
Service factor		1
Rated Power P1	[kW]	1.13

Output data

Gear unit F RS 110 PC 100 90 B14 AC 42 B3

Type		RS - Worm speed reducers
Input type		F
Size		110
Ratio (i=)		100
Input flange		B14
Mounting position		B3
Input speed	[rpm]	1400
Output speed	[rpm]	14
Rated output torque	[Nm]	457.72
Service Factor		1
Efficiency		0.61
Inertia moment	[kgm ²]	0.001682

Gear unit configuration

Output shaft	Hollow output shaft
Fixing	Shaft mounting
Version	PC

Output radial and axial loads

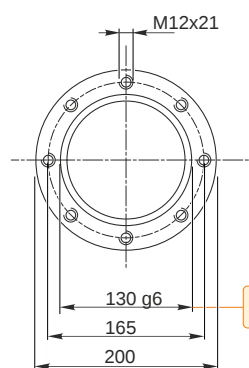
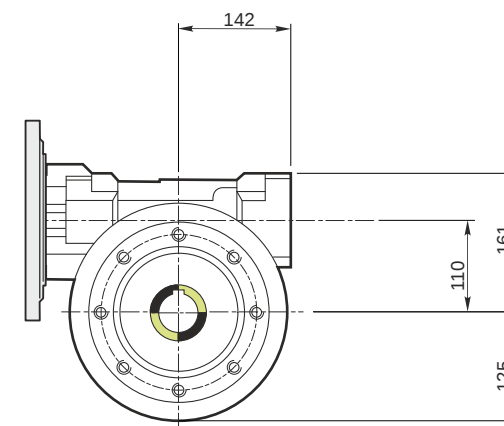
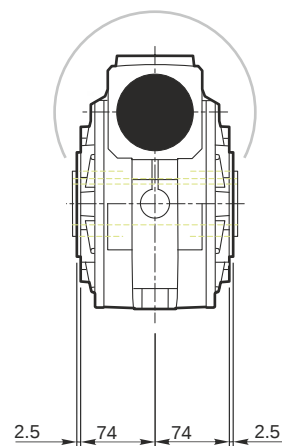
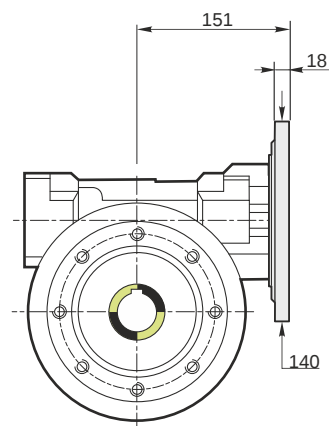
Ball bearings output radial load	[N]	9800
Taper bearings output radial load	[N]	11100
Ball bearings output axial load	[N]	1960
Taper bearings output axial load	[N]	2220

Accessories

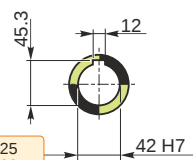
Hollow output shaft	AC 42
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Electric motor coupling

Size		90 S4
Poles n.		4
Power	[kW]	1.1

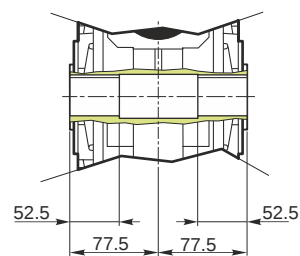


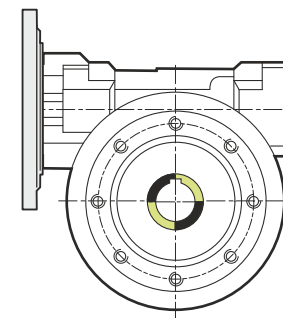
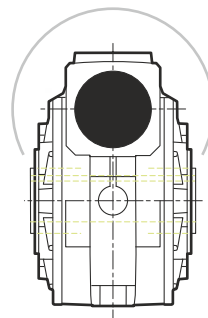
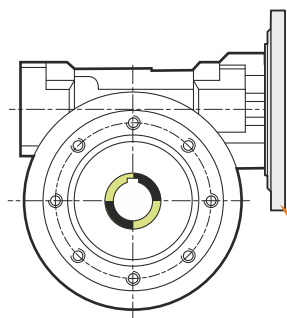
Hollow output shaft



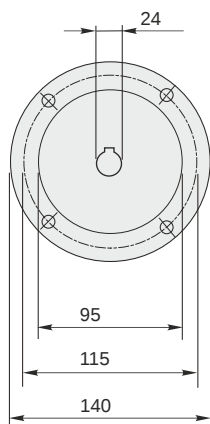
129.986
129.961

42.025
42.000



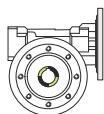


This gear unit is provided with an elastic coupling motor fitting



Mounting positions

B3



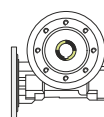
B6



B7



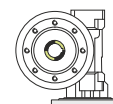
B8



V5



V6



1.5



← Oil quantity [litres]

Lubricant type: Long life synthetic oil ISO VG320

Direction of rotation



Weight

Gear unit [kg] 39

Gearing data

Axial module	1.8
Number of starts	1
Lead angle	2° 34'
Pressure angle	20°

Backdriving

Static self-locking
No back-driving
Low dynamic back-driving

F RS 110 PC 100 90 B14 AC 42 B3