

Input data

System of measurement		Metric
Input type		Coupling for electric motor
Input speed	[rpm]	1400
Output speed	[rpm]	17.5
Ratio (i=)		80
Frequency	[Hz]	50
Input options		IEC
Requested input power	[kW]	0.18
Service factor		1.1
Rated Power P1	[kW]	0.2

Output data

Gear unit **F RT 50 B3 80 63 B14 AC 24**

Type		RT - Worm speed reducers
Input type		F (Elastic coupling)
Size		50
Ratio (i=)		80
Input flange		B14
Input speed	[rpm]	1400
Output speed	[rpm]	17.5
Rated output torque	[Nm]	51.08
Service Factor		1.1
Efficiency		0.52
Inertia moment	[kgm ²]	0.000047

Gear unit configuration

Output shaft		Hollow output shaft
Fixing		Universal
Version		B3

Output radial and axial loads

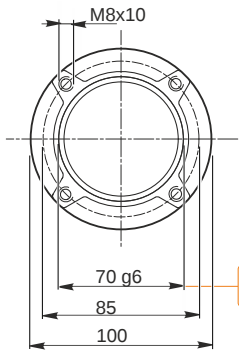
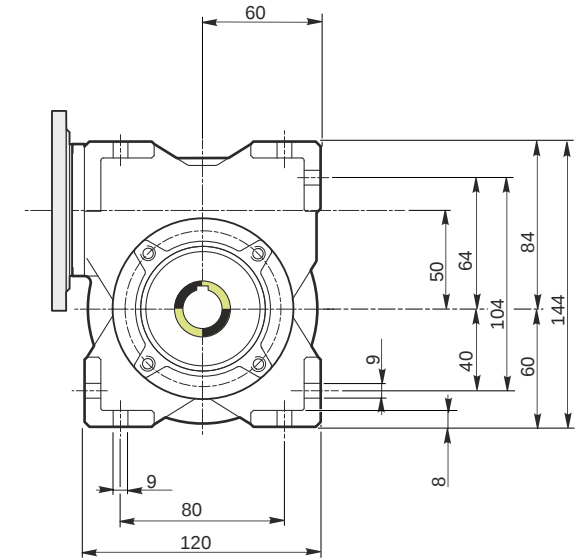
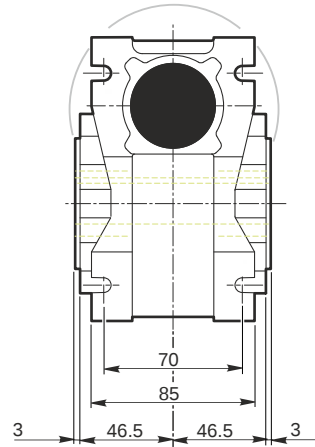
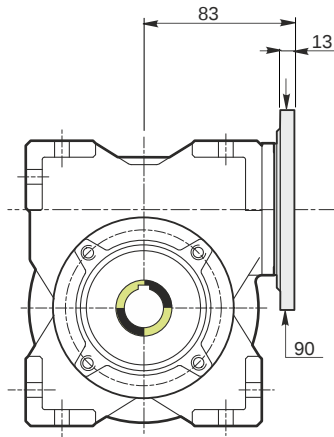
Ball bearings output radial load	[N]	2900
Taper bearings output radial load	[N]	4200
Ball bearings output axial load	[N]	580
Taper bearings output axial load	[N]	840

Accessories

Hollow output shaft		AC 24
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Electric motor coupling

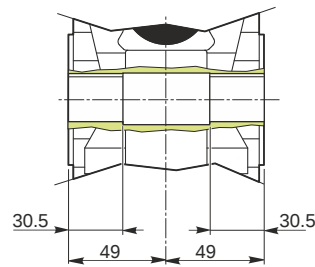
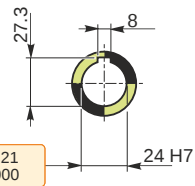
Size		63 B4
Poles n.		4
Power	[kW]	0.18

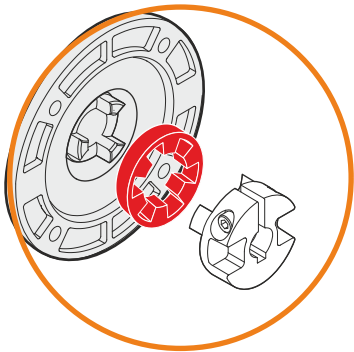
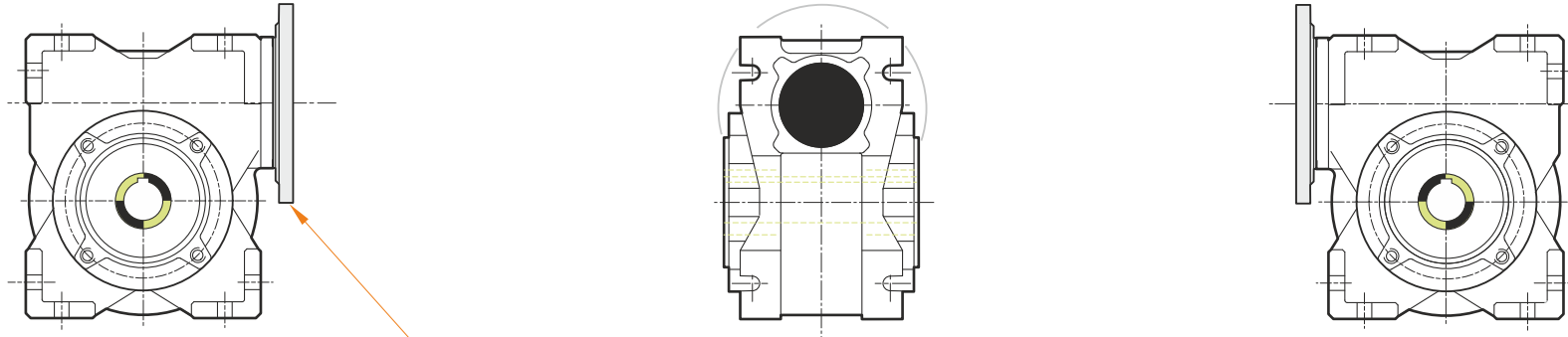


Hollow output shaft

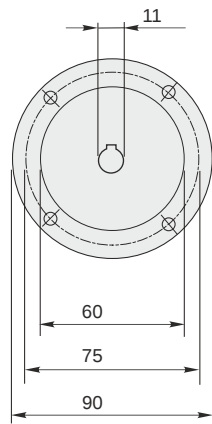
69.99
69.971

24.021
24.000





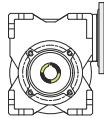
This gear unit is provided with an elastic coupling motor fitting



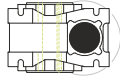
F RT 50 B3 80 63 B14 AC 24

Mounting positions

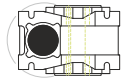
B3



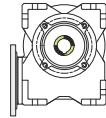
B6



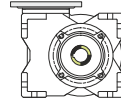
B7



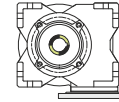
B8



V5



V6



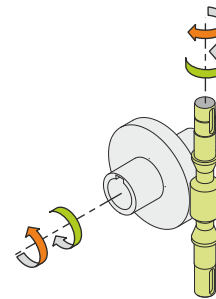
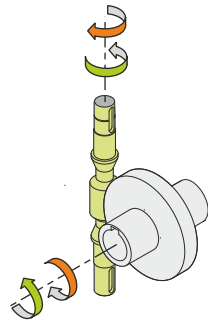
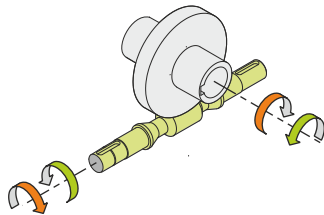
0.13



← Oil quantity [litres]

Lubricant type: Long life synthetic oil ISO VG320

Direction of rotation



Weight

Gear unit [kg] 3.8

Gearing data

Axial module	1
Number of starts	1
Lead angle	2° 51'
Pressure angle	20°

Backdriving

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