

Input data

System of measurement		Metric
Input type		Gear motor
Input speed	[rpm]	1400
Output speed	[rpm]	50
Ratio (i=)		28
Frequency	[Hz]	50
Input options		IEC
Requested input power	[kW]	1.5
Service factor		1.5
Rated Power P1	[kW]	2.2

Output data

Gear unit M RT 85 B3 28 90 B14 AC 35 MT 1.5 kW 90 L4 B14 X3

Type		RT - Worm speed reducers
Input type		M
Size		85
Ratio (i=)		28
Input flange		B14
Input speed	[rpm]	1400
Output speed	[rpm]	50
Rated output torque	[Nm]	217.74
Service Factor		1.5
Efficiency		0.76
Inertia moment	[kgm ²]	0.000348

Gear unit configuration

Output shaft		Hollow output shaft
Fixing		Universal
Version		B3

Output radial and axial loads

Ball bearings output radial load	[N]	5400
Taper bearings output radial load	[N]	7200
Ball bearings output axial load	[N]	1080
Taper bearings output axial load	[N]	1440

Accessories

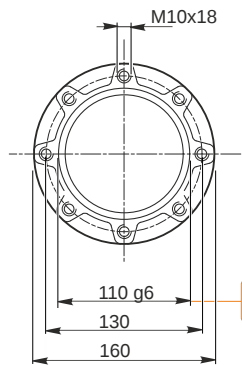
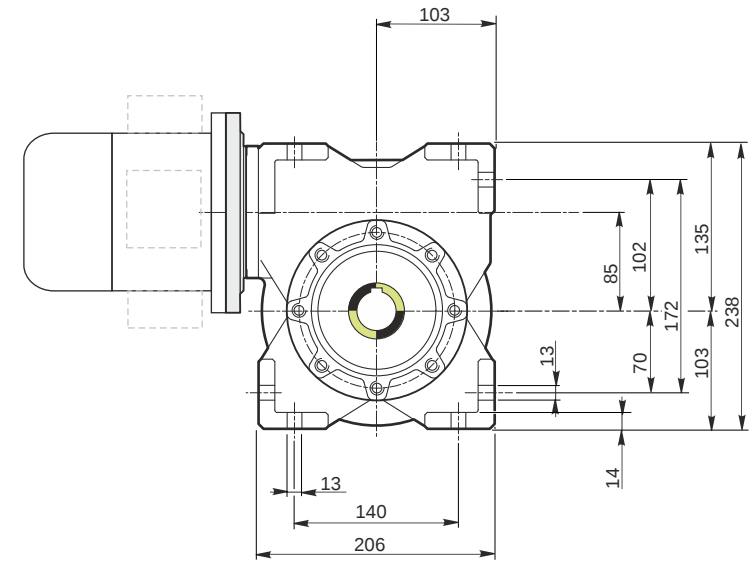
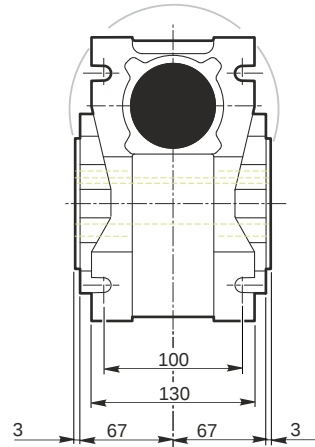
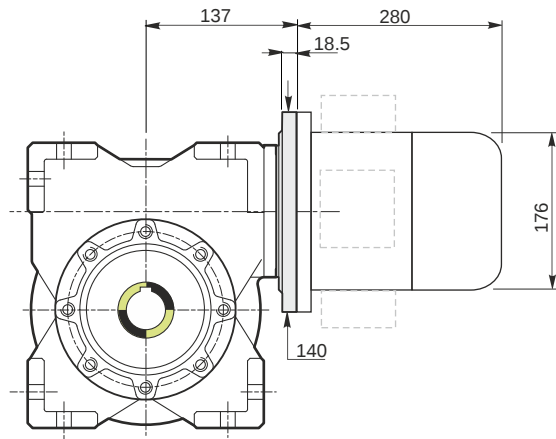
Hollow output shaft		AC 35
---------------------	--	-------

Electric motor

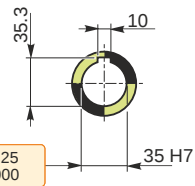
Size		90 L4
Poles		4
Power	[kW]	1.5

Electric motor configuration

Motor flange		B14
Terminal box position		X3

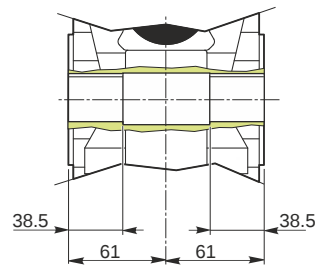


Hollow output shaft

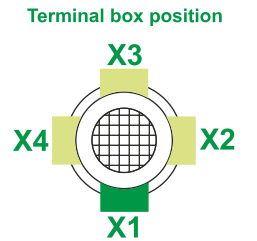
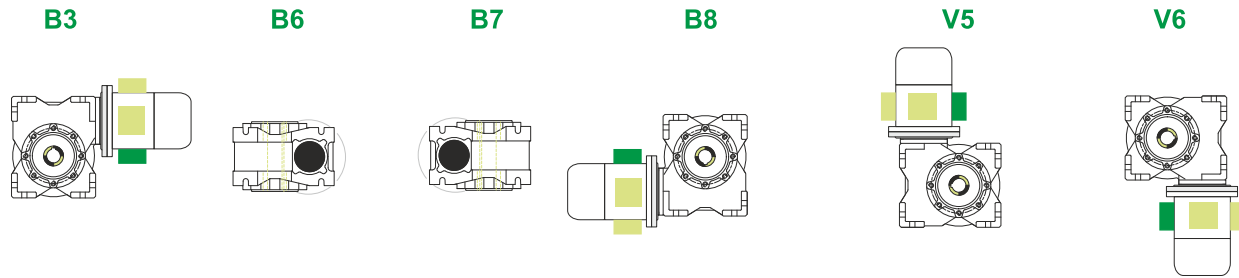


109.988
109.966

35.025
35.000



Mounting positions



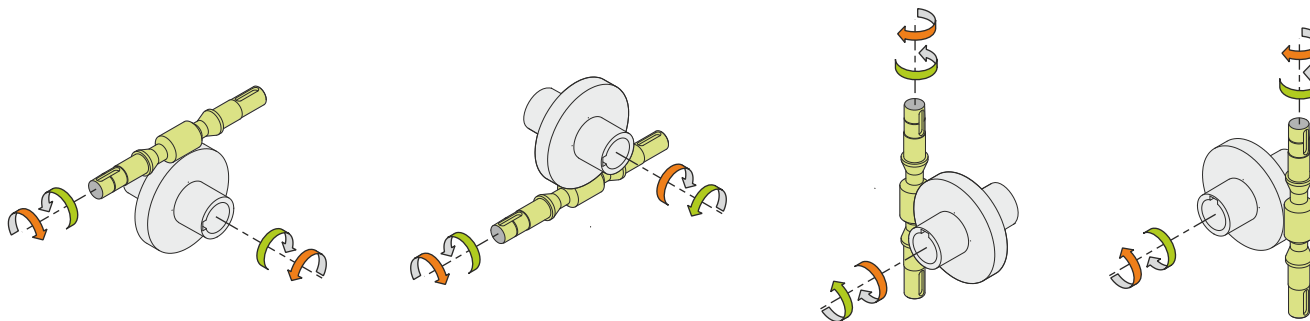
0.6



← Oil quantity [litres]

Lubricant type: Long life synthetic oil ISO VG320

Direction of rotation



Weight

Gear unit [kg]	13.5
Electric motor [kg]	13.5

Gearing data

Axial module	4.7
Number of starts	1
Lead angle	6° 58'
Pressure angle	20°

Backdriving

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

M RT 85 B3 28 90 B14 AC 35 MT 1.5 kW 90 L4 B14 X3