

Input data

System of measurement		Metric
Input type		Gear motor
Input speed	[rpm]	1400
Output speed	[rpm]	5.47
Ratio (i=)		256
Frequency	[Hz]	50
Input options		IEC
Requested input power	[kW]	1.1
Service factor		1
Rated Power P1	[kW]	1.12

Output data

Gear unit **M TA 80/110 B3 10 256 90 B14 AC 42 MT 1.1 kW 90 S4 B14 X3**

Type		TA - Worm speed reducers
Input type		M
Size		80/110
Ratio (i=)		256
Gearbox ratio		40.00
Pre-stage ratio		6.40
Input flange		B14
Input speed	[rpm]	1400
Output speed	[rpm]	5.47
Rated output torque	[Nm]	1094.92
Service Factor		1
Efficiency		0.57
Inertia moment	[kgm ²]	0.000298

Gear unit configuration

Output shaft		Hollow output shaft
Fixing		Universal
Version		B3
Attachment position		10

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

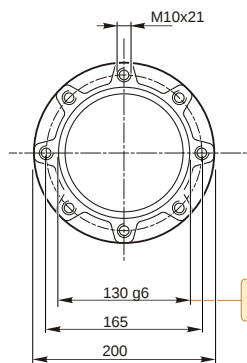
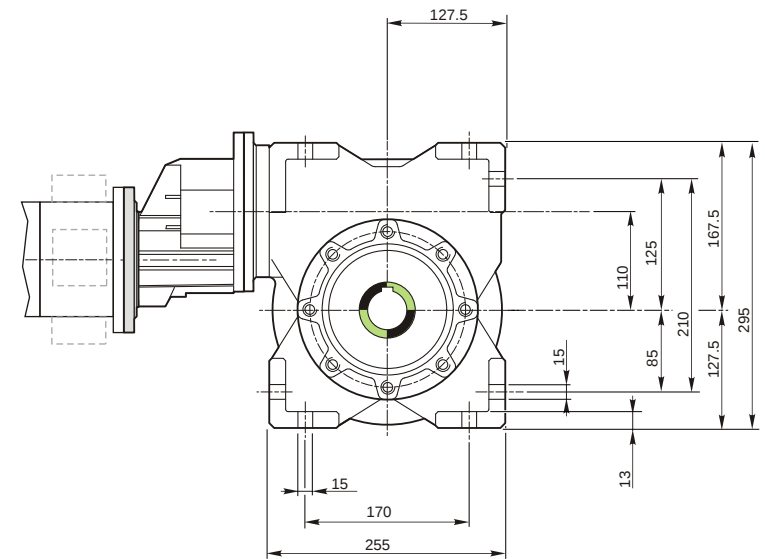
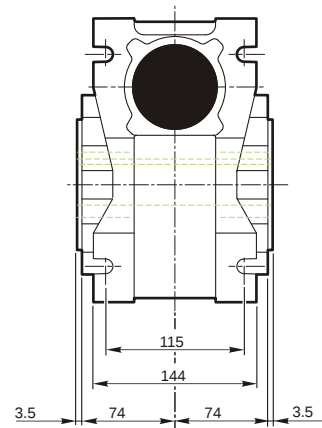
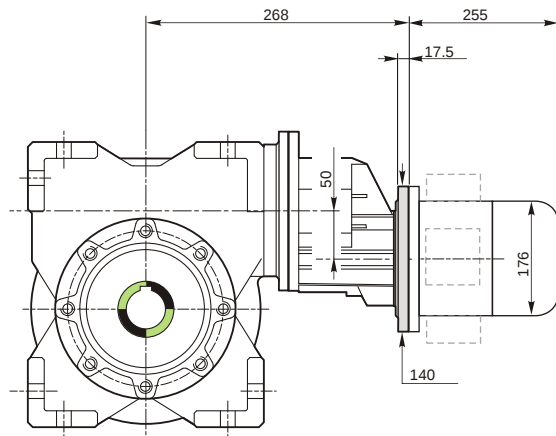
Hollow output shaft		AC 42
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Electric motor

Size		90 S4
Poles		4
Power	[kW]	1.1

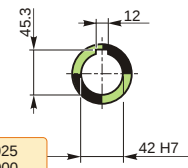
Electric motor configuration

Motor flange		B14
Terminal box position		X3

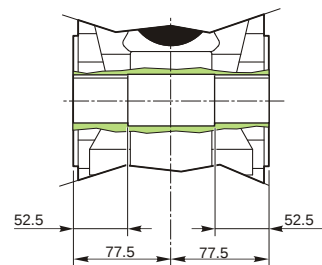


129.986
129.961

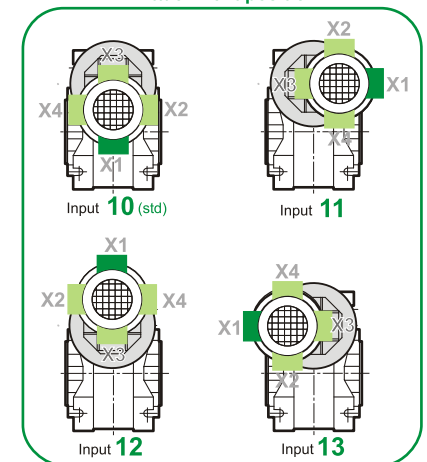
Hollow output shaft



42.025
42.000



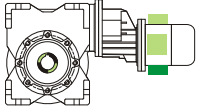
Attachment position



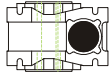
M TA 80/110 B3 10 256 90 B14 AC 42 MT 1.1 kW 90 S4 B14 X3

Mounting positions

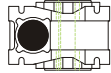
B3



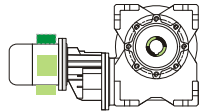
B6



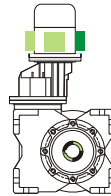
B7



B8



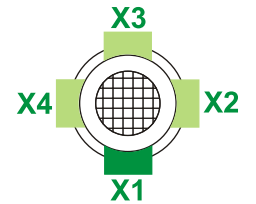
V5



V6



Terminal box position

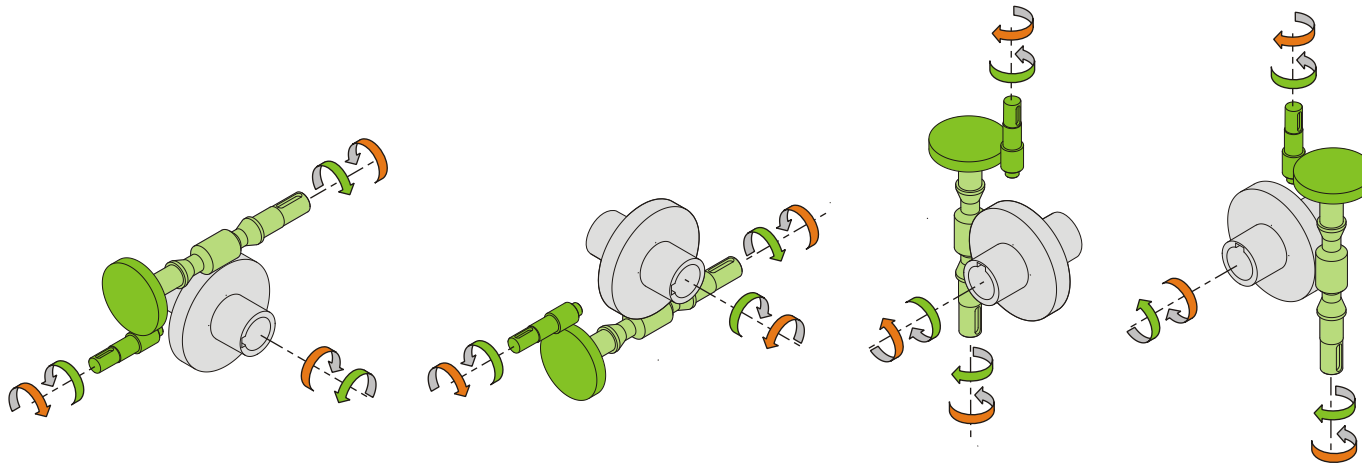


0.1	1	
1.5	2	

← Oil quantity [litres]

Lubricant type: Long life synthetic oil ISO VG320

Direction of rotation



Weight

Gear unit [kg]	43
Electric motor [kg]	12

Gearing data

Axial module	4.4
Number of starts	1
Lead angle	5° 42'
Pressure angle	20°

Backdriving

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

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