

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

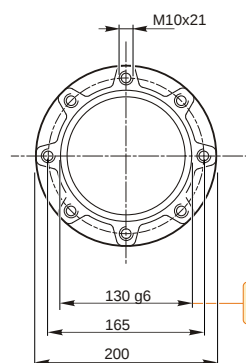
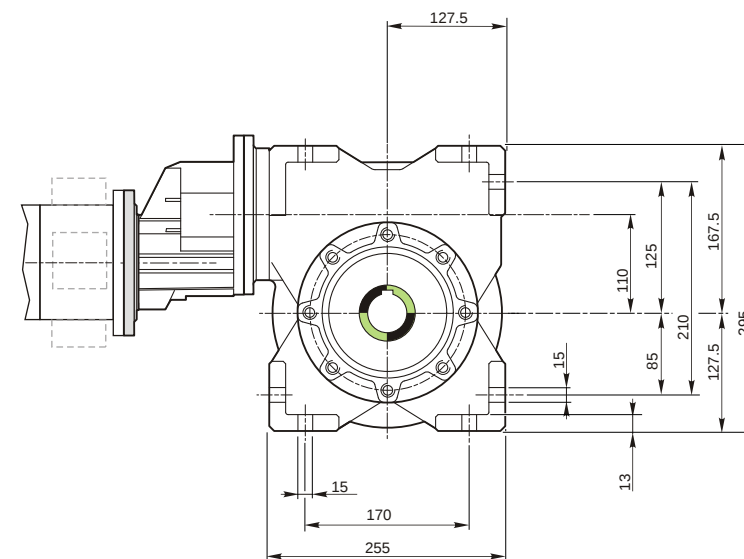
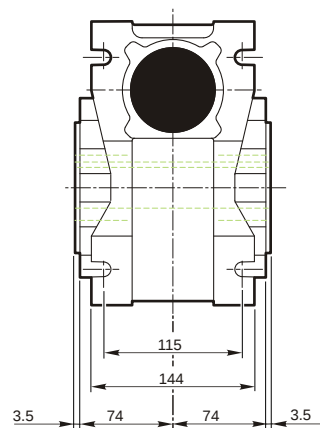
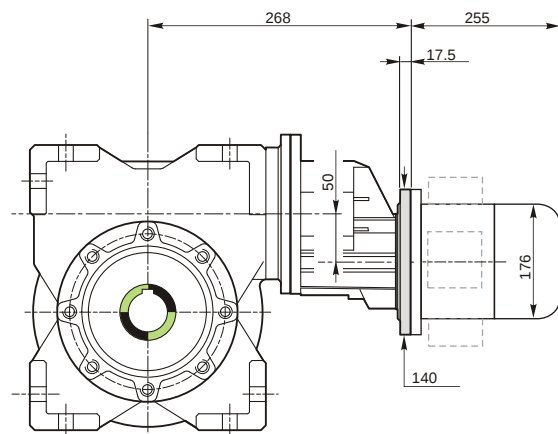
Hollow output shaft	AC 42
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Electric motor

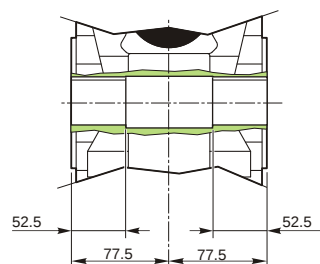
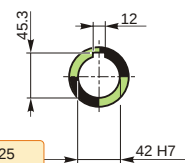
Size		90 S4
Poles		4
Power	[kW]	1.1

Electric motor configuration

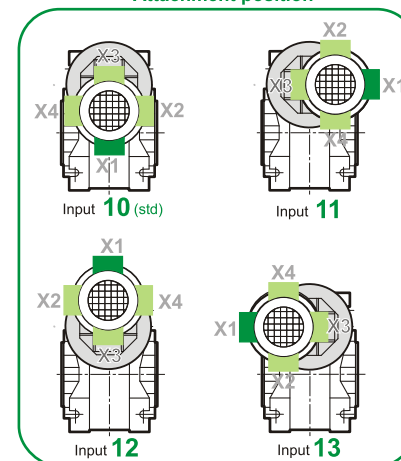
Motor flange	B14
Terminal box position	X3



Hollow output shaft



Attachment position



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

Mounting positions

B3

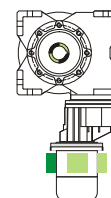
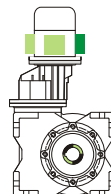
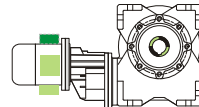
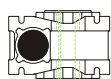
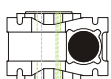
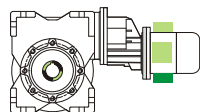
B6

B7

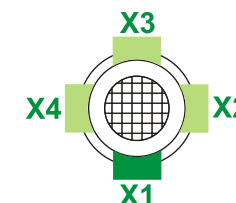
B8

V5

V6



Terminal box position



0.1

1

2 1

1.5

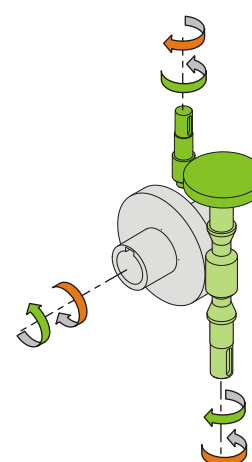
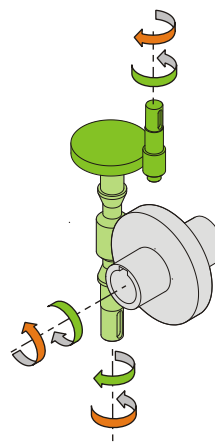
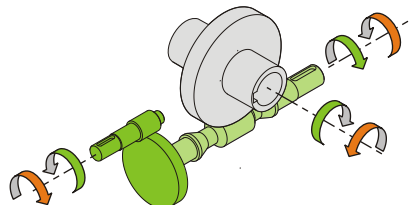
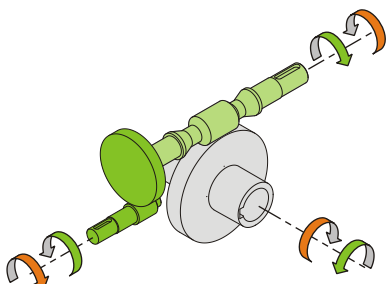
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Oil quantity [litres]

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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