

Input data

System of measurement		Metric
Input type		Gear motor
Input speed	[rpm]	1400
Output speed	[rpm]	31.25
Ratio (i=)		44.8
Frequency	[Hz]	50
Input options		IEC
Requested input power	[kW]	1.5
Service factor		1.3
Rated Power P1	[kW]	2

Output data

Gear unit **M TA 80/85 B3 10 44.8 90 B14 AC 32 MT 1.5 kW 90 L4 B14 X3**

Type		TA - Worm speed reducers
Input type		M
Size		80/85
Ratio (i=)		44.8
Gearbox ratio		7.00
Pre-stage ratio		6.40
Input flange		B14
Input speed	[rpm]	1400
Output speed	[rpm]	31.25
Rated output torque	[Nm]	366.72
Service Factor		1.3
Efficiency		0.8
Inertia moment	[kgm ²]	0.000268

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]	5950
Taper bearings output radial load	[N]	7900
Ball bearings output axial load	[N]	1190
Taper bearings output axial load	[N]	1580

Accessories

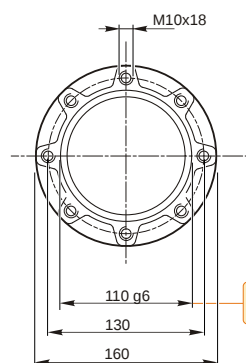
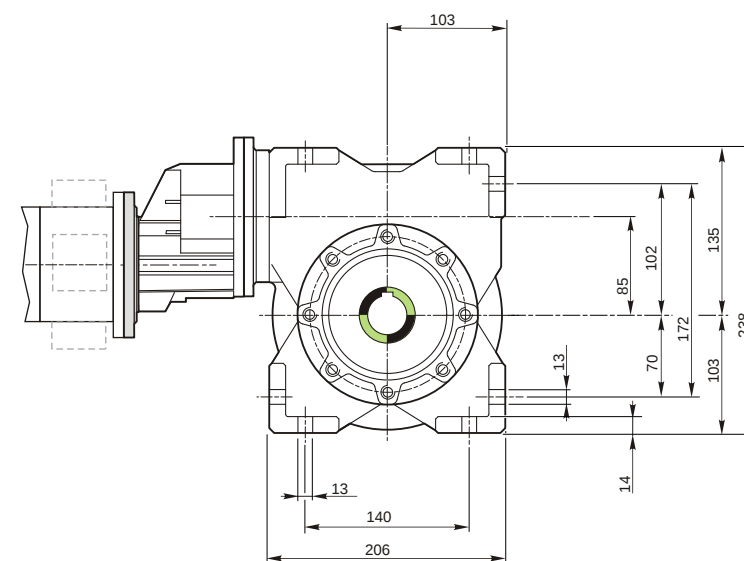
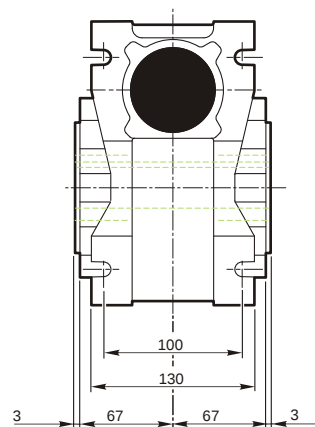
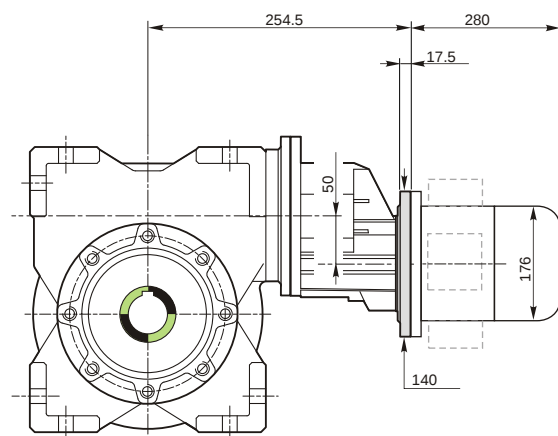
Hollow output shaft	AC 32
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Electric motor

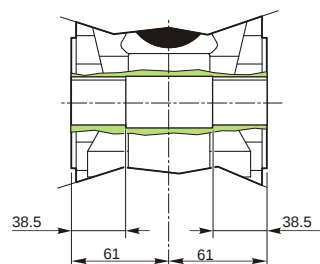
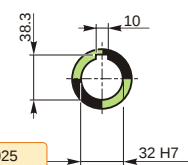
Size		90 L4
Poles		4
Power	[kW]	1.5

Electric motor configuration

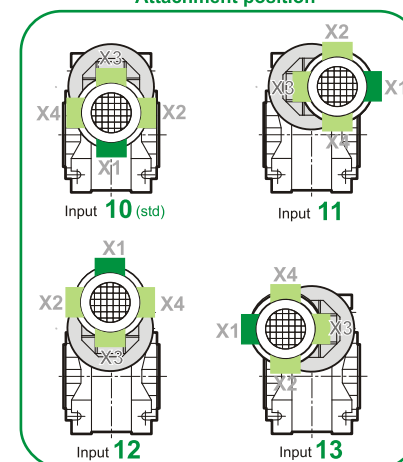
Motor flange	B14
Terminal box position	X3



Hollow output shaft



Attachment position



M TA 80/85 B3 10 44.8 90 B14 AC 32 MT 1.5 kW 90 L4 B14 X3

Mounting positions

B3

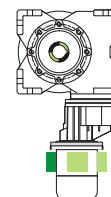
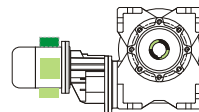
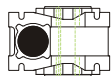
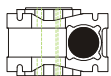
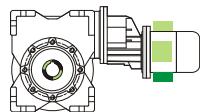
B6

B7

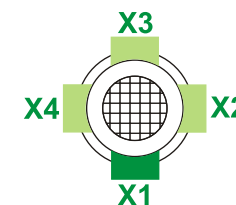
B8

V5

V6



Terminal box position



0.1

1



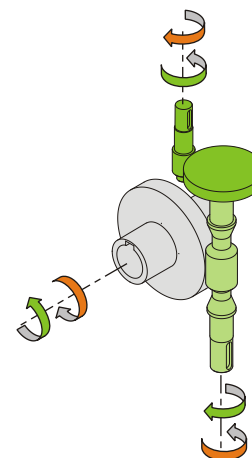
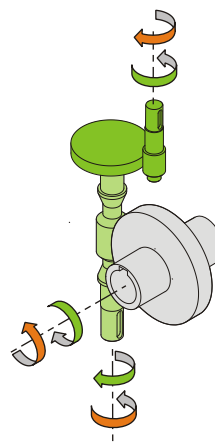
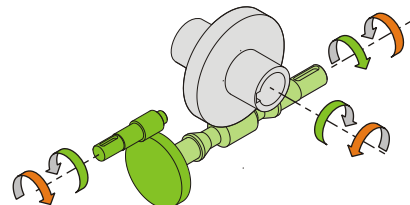
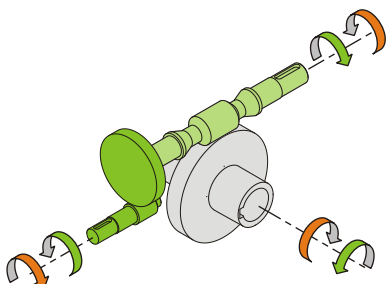
0.6

2

← Oil quantity [litres]

Lubricant type: Long life synthetic oil ISO VG320

Direction of rotation



Weight

Gear unit [kg]	17.5
Electric motor [kg]	13.5

Gearing data

Axial module	4.7
Number of starts	4
Lead angle	26° 05'
Pressure angle	20°

Backdriving

Static back-driving
Quick back-driving
Dynamic back-driving

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