

### 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]	1.1
Service factor		1.1
Rated Power P1	[kW]	1.18

### Output data

**Gear unit** **M TA 80/70 B3 10 44.8 90 B14 AC 28 MT 1.1 kW 90 S4 B14 X3**

Type		TA - Worm speed reducers
Input type		M
Size		80/70
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]	268.93
Service Factor		1.1
Efficiency		0.8
Inertia moment	[kgm <sup>2</sup> ]	0.000263

#### 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]	4900
Taper bearings output radial load	[N]	6550
Ball bearings output axial load	[N]	980
Taper bearings output axial load	[N]	1310

#### Accessories

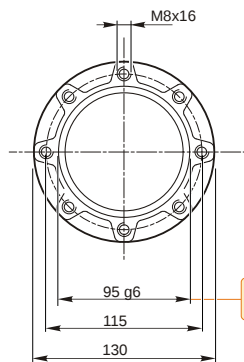
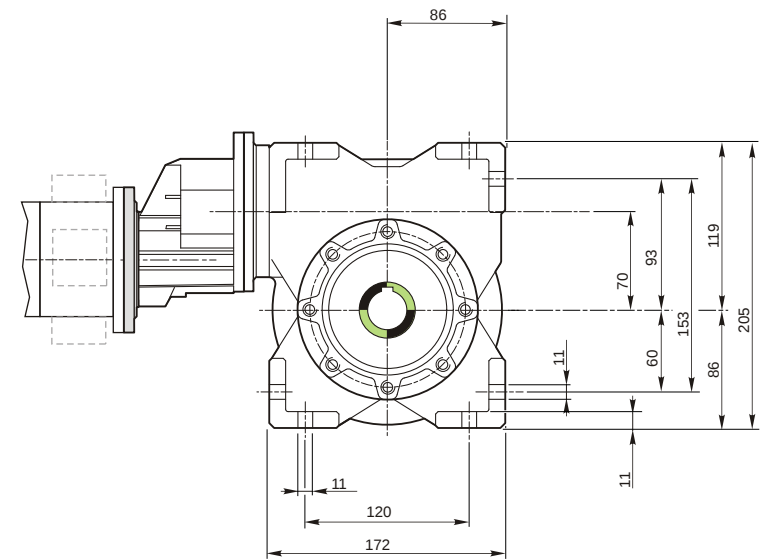
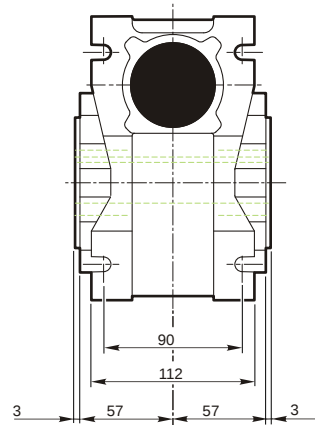
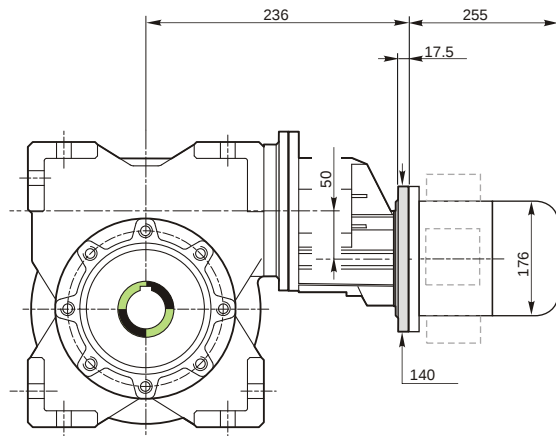
Hollow output shaft		AC 28
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#### Electric motor

Size		90 S4
Poles		4
Power	[kW]	1.1

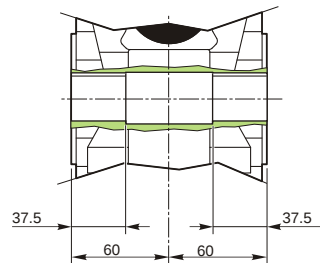
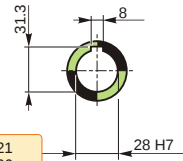
#### Electric motor configuration

Motor flange		B14
Terminal box position		X3

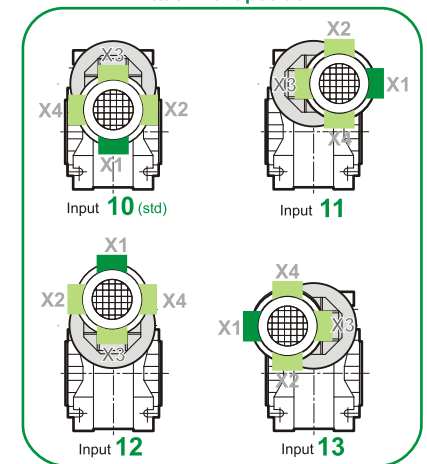


94.988  
94.966

Hollow output shaft



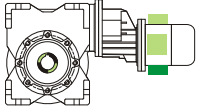
Attachment position



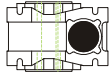
**M TA 80/70 B3 10 44.8 90 B14 AC 28 MT 1.1 kW 90 S4 B14 X3**

**Mounting positions**

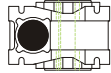
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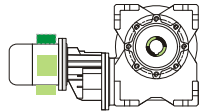
**B6**



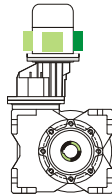
**B7**



**B8**



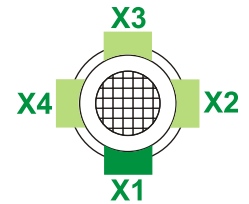
**V5**



**V6**



Terminal box position

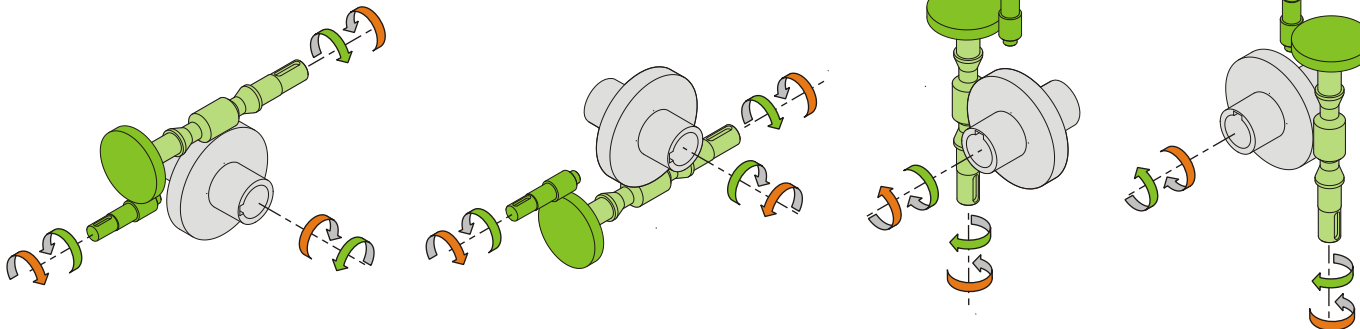


0.1	1	
0.35	2	

← Oil quantity [litres]

Lubricant type: Long life synthetic oil ISO VG320

**Direction of rotation**



**Weight**

Gear unit [kg]	13
Electric motor [kg]	12

**Gearing data**

Axial module	3.9
Number of starts	4
Lead angle	26° 51'
Pressure angle	20°

**Backdriving**

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

**M TA 80/70 B3 10 44.8 90 B14 AC 28 MT 1.1 kW 90 S4 B14 X3**