

### Input data

|                       |       |            |
|-----------------------|-------|------------|
| System of measurement |       | Metric     |
| Input type            |       | Gear motor |
| Input speed           | [rpm] | 1400       |
| Output speed          | [rpm] | 14.66      |
| Ratio (i=)            |       | 95.48      |
| Frequency             | [Hz]  | 50         |
| Input options         |       | IEC        |
| Requested input power | [kW]  | 1.5        |
| Service factor        |       | 1.5        |
| Rated Power P1        | [kW]  | 2.23       |

### Output data

**Gear unit** **M TA 80/110 B3 10 95.48 90 B14 AC 42 MT 1.5 kW 90 L4 B14 X3**

|                     |                     |                          |
|---------------------|---------------------|--------------------------|
| Type                |                     | TA - Worm speed reducers |
| Input type          |                     | M                        |
| Size                |                     | 80/110                   |
| Ratio (i=)          |                     | 95.48                    |
| Gearbox ratio       |                     | 28.00                    |
| Pre-stage ratio     |                     | 3.41                     |
| Input flange        |                     | B14                      |
| Input speed         | [rpm]               | 1400                     |
| Output speed        | [rpm]               | 14.66                    |
| Rated output torque | [Nm]                | 644.8                    |
| Service Factor      |                     | 1.5                      |
| Efficiency          |                     | 0.66                     |
| Inertia moment      | [kgm <sup>2</sup> ] | 0.000518                 |

#### 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] | 9750  |
| Taper bearings output radial load | [N] | 11100 |
| Ball bearings output axial load   | [N] | 1950  |
| Taper bearings output axial load  | [N] | 2220  |

#### Accessories

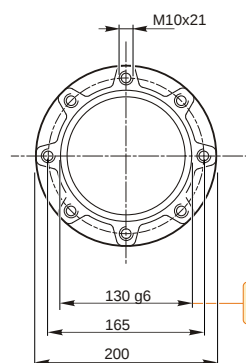
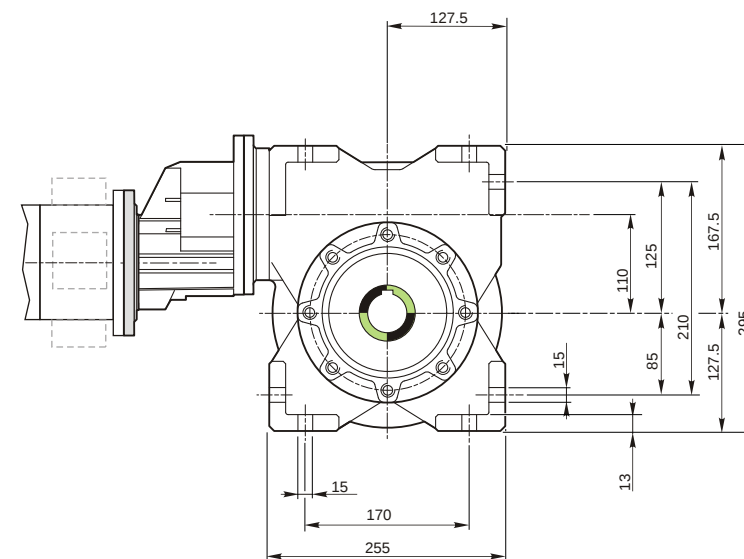
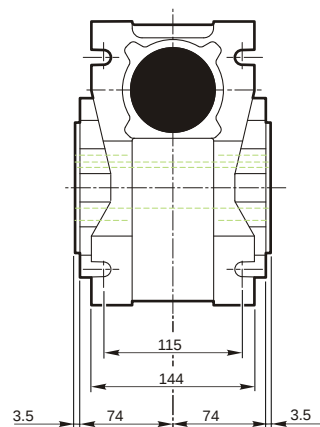
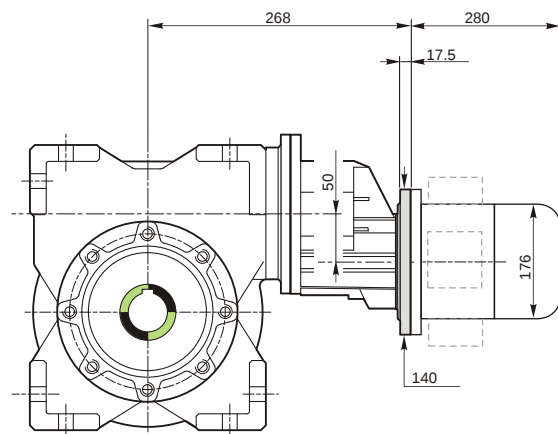
|                     |       |
|---------------------|-------|
| Hollow output shaft | AC 42 |
|---------------------|-------|

### Electric motor

|       |      |       |
|-------|------|-------|
| Size  |      | 90 L4 |
| Poles |      | 4     |
| Power | [kW] | 1.5   |

#### Electric motor configuration

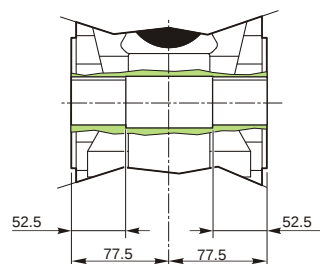
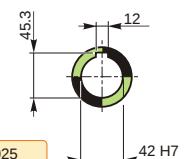
|                       |     |
|-----------------------|-----|
| Motor flange          | B14 |
| Terminal box position | X3  |



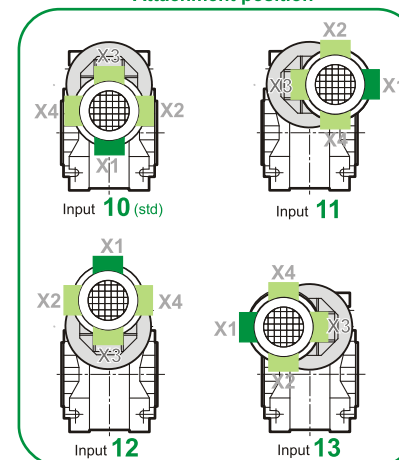
129.986  
129.961

42.025  
42.000

*Hollow output shaft*



**Attachment position**



**M TA 80/110 B3 10 95.48 90 B14 AC 42 MT 1.5 kW 90 L4 B14 X3**

## Mounting positions

B3

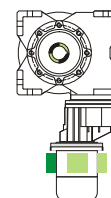
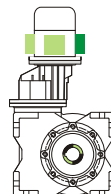
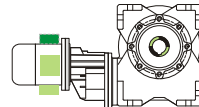
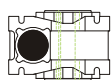
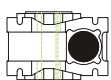
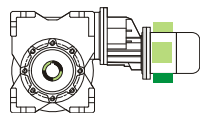
B6

B7

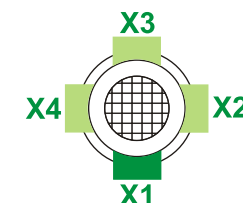
B8

V5

V6



Terminal box position



0.1

1

2 1

1.5

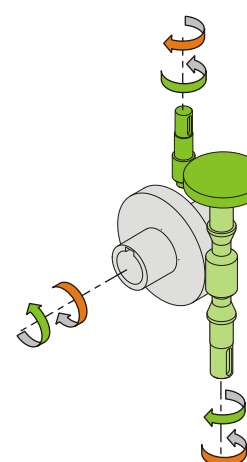
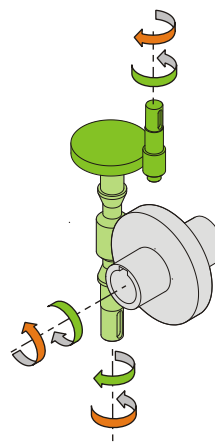
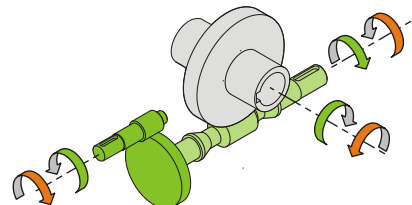
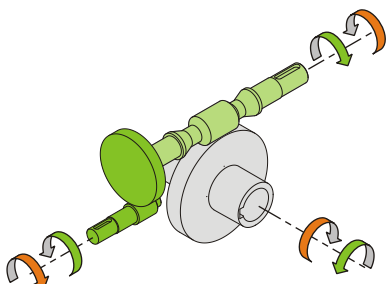
2



← Oil quantity [litres]

Lubricant type: Long life synthetic oil ISO VG320

## Direction of rotation



## Weight

|                     |      |
|---------------------|------|
| Gear unit [kg]      | 43   |
| Electric motor [kg] | 13.5 |

## Gearing data

|                  |        |
|------------------|--------|
| Axial module     | 6.1    |
| Number of starts | 1      |
| Lead angle       | 7° 04' |
| Pressure angle   | 20°    |

## Backdriving

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

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