

## Input data

|                       |       |            |
|-----------------------|-------|------------|
| System of measurement |       | Metric     |
| Input type            |       | Gear motor |
| Input speed           | [rpm] | 1400       |
| Output speed          | [rpm] | 18.04      |
| Ratio (i=)            |       | 77.6       |
| Frequency             | [Hz]  | 50         |
| Input options         |       | IEC        |
| Requested input power | [kW]  | 1.5        |
| Service factor        |       | 1.6        |
| Rated Power P1        | [kW]  | 2.35       |

## Output data

**Gear unit** **M TA 100/110 B3 10 77.6 90 B14 AC 42 MT 1.5 kW 90 L4 B14 X3**

|                     |       |                          |
|---------------------|-------|--------------------------|
| Type                |       | TA - Worm speed reducers |
| Input type          |       | M                        |
| Size                |       | 100/110                  |
| Ratio (i=)          |       | 77.6                     |
| Gearbox ratio       |       | 20.00                    |
| Pre-stage ratio     |       | 3.88                     |
| Input flange        |       | B14                      |
| Input speed         | [rpm] | 1400                     |
| Output speed        | [rpm] | 18.04                    |
| Rated output torque | [Nm]  | 579.63                   |
| Service Factor      |       | 1.6                      |
| Efficiency          |       | 0.73                     |

### 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] | 8000  |
| Taper bearings output radial load | [N] | 11100 |
| Ball bearings output axial load   | [N] | 1600  |
| Taper bearings output axial load  | [N] | 2220  |

### Accessories

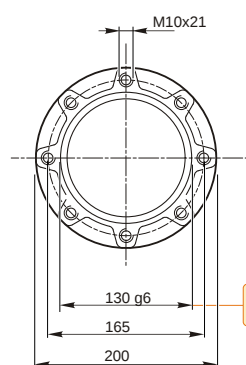
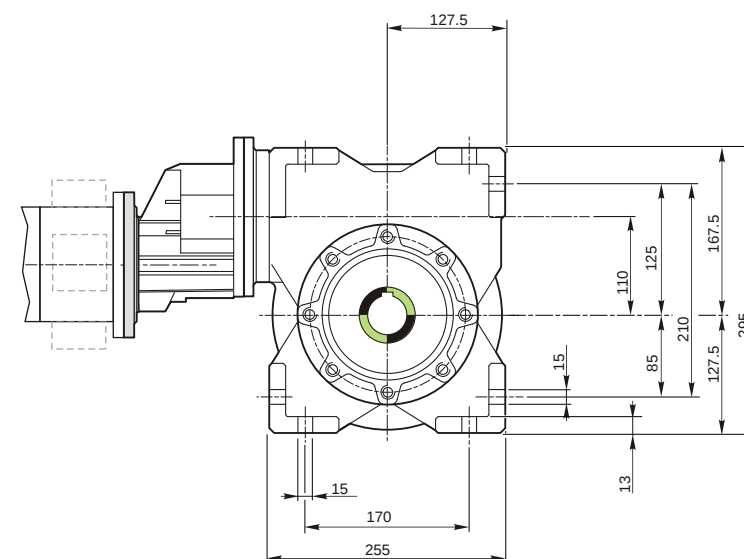
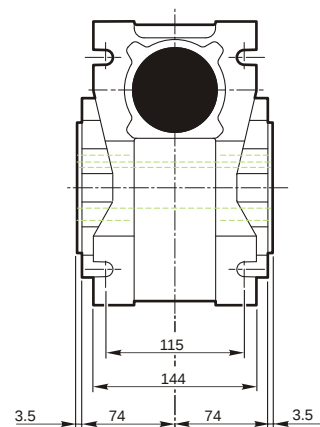
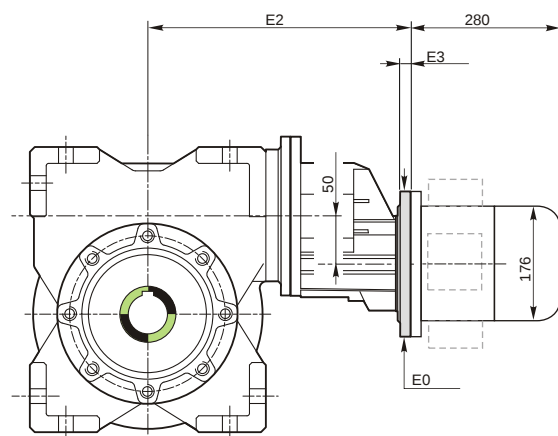
|                     |  |       |
|---------------------|--|-------|
| Hollow output shaft |  | AC 42 |
|---------------------|--|-------|

## Electric motor

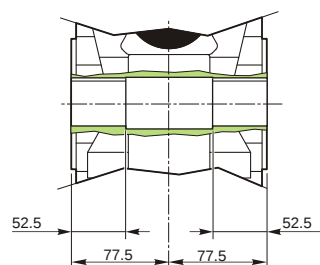
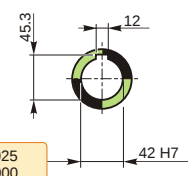
|       |      |       |
|-------|------|-------|
| Size  |      | 90 L4 |
| Poles |      | 4     |
| Power | [kW] | 1.5   |

### Electric motor configuration

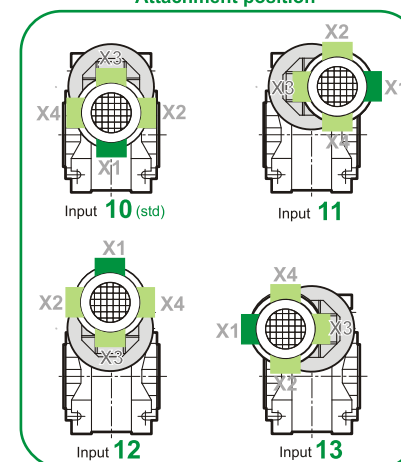
|                       |  |     |
|-----------------------|--|-----|
| Motor flange          |  | B14 |
| Terminal box position |  | X3  |



*Hollow output shaft*



**Attachment position**



**M TA 100/110 B3 10 77.6 90 B14 AC 42 MT 1.5 kW 90 L4 B14 X3**

## Mounting positions

B3

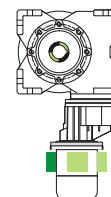
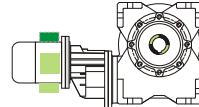
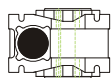
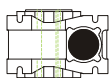
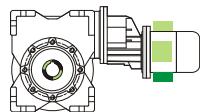
B6

B7

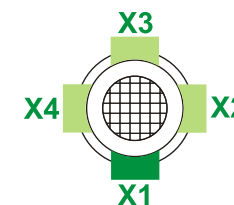
B8

V5

V6



Terminal box position



0.2

1

2

1

1.5

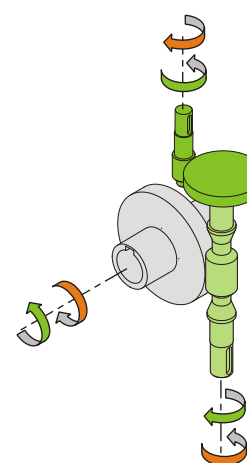
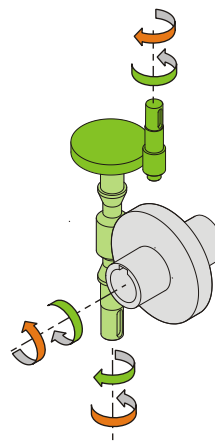
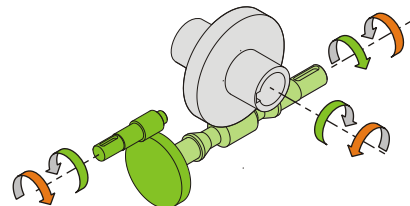
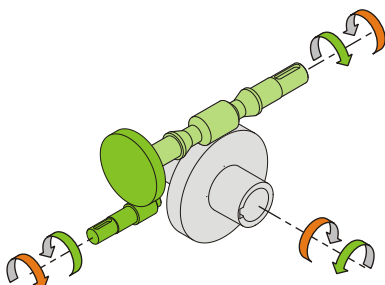
2

1

← Oil quantity [litres]

Lubricant type: Long life synthetic oil ISO VG320

## Direction of rotation



## Weight

|                     |      |
|---------------------|------|
| Gear unit [kg]      | 46   |
| Electric motor [kg] | 13.5 |

## Gearing data

|                  |         |
|------------------|---------|
| Axial module     | 4.4     |
| Number of starts | 2       |
| Lead angle       | 11° 18' |
| Pressure angle   | 20°     |

## Backdriving

Variable static self-locking  
Quick back-driving in case of vibrations  
Dynamic back-driving

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