

### Input data

|                       |       |            |
|-----------------------|-------|------------|
| System of measurement |       | Metric     |
| Input type            |       | Gear motor |
| Input speed           | [rpm] | 1400       |
| Output speed          | [rpm] | 3.33       |
| Ratio (i=)            |       | 420        |
| Frequency             | [Hz]  | 50         |
| Input options         |       | IEC        |
| Requested input power | [kW]  | 0.13       |
| Service factor        |       | 1          |
| Rated Power P1        | [kW]  | 0.13       |

### Output data

|                  |                                                                                |
|------------------|--------------------------------------------------------------------------------|
| <b>Gear unit</b> | <b>M RS/RS 28/50 S (bolted) 11 420 63 B14 AC 24 MT 0.13 kW 63 A4 B14 X3 B3</b> |
|------------------|--------------------------------------------------------------------------------|

|                     |       |                             |
|---------------------|-------|-----------------------------|
| Type                |       | RS/RS - Worm speed reducers |
| Input type          |       | M                           |
| Size                |       | 28/50                       |
| Ratio (i=)          |       | 420                         |
| Gearbox ratio       |       | 28.00                       |
| Pre-stage ratio     |       | 15.00                       |
| Input flange        |       | B14                         |
| Mounting position   |       | B3                          |
| Input speed         | [rpm] | 1400                        |
| Output speed        | [rpm] | 3.33                        |
| Rated output torque | [Nm]  | 145.26                      |
| Service Factor      |       | 1                           |
| Efficiency          |       | 0.39                        |

#### Gear unit configuration

|                     |  |                     |
|---------------------|--|---------------------|
| Output shaft        |  | Hollow output shaft |
| Fixing              |  | Feet                |
| Version             |  | S (bolted)          |
| Attachment position |  | 11                  |

#### Output radial and axial loads

|                                   |     |      |
|-----------------------------------|-----|------|
| Ball bearings output radial load  | [N] | 3200 |
| Taper bearings output radial load | [N] | 4200 |
| Ball bearings output axial load   | [N] | 640  |
| Taper bearings output axial load  | [N] | 840  |

#### Accessories

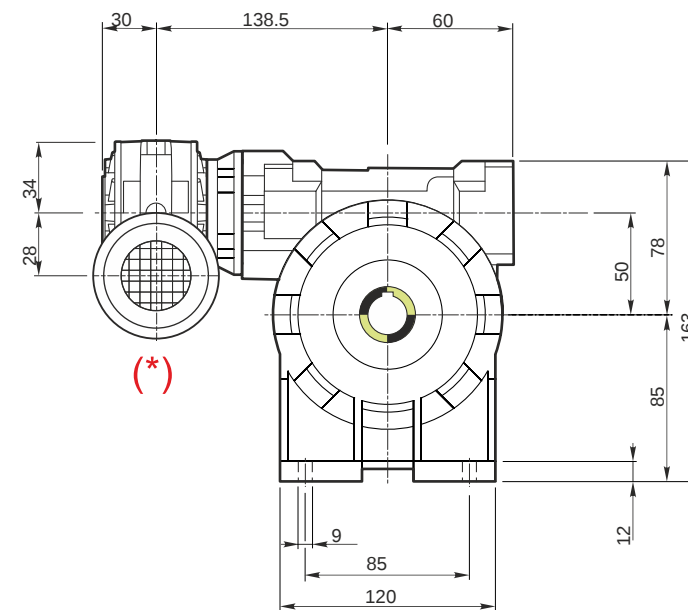
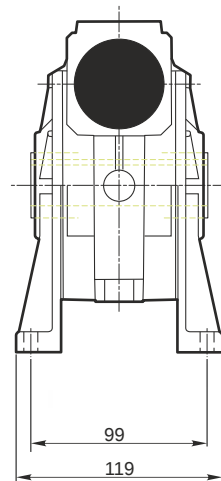
|                     |  |       |
|---------------------|--|-------|
| Hollow output shaft |  | AC 24 |
|---------------------|--|-------|

### Electric motor

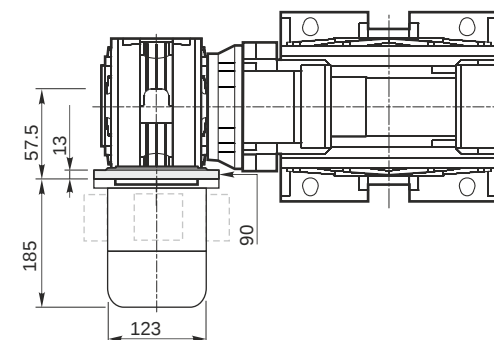
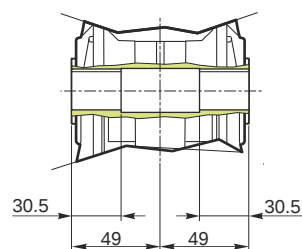
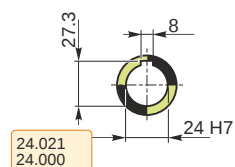
|       |      |       |
|-------|------|-------|
| Size  |      | 63 A4 |
| Poles |      | 4     |
| Power | [kW] | 0.13  |

#### Electric motor configuration

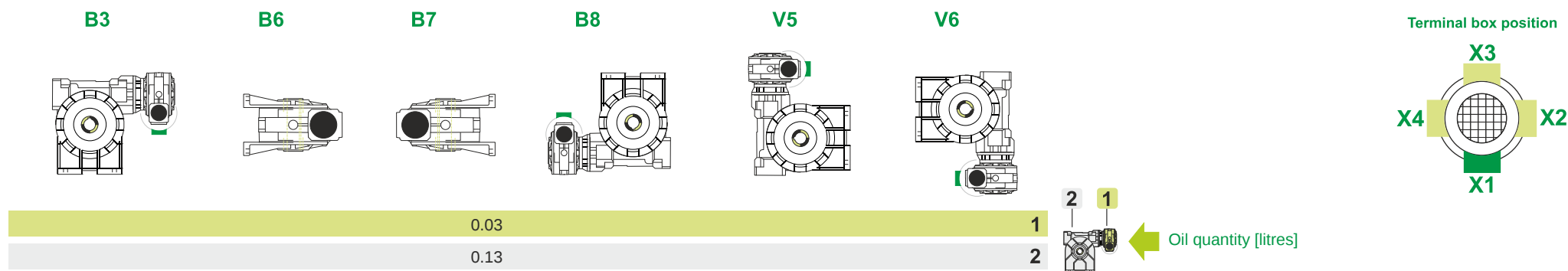
|                       |  |     |
|-----------------------|--|-----|
| Motor flange          |  | B14 |
| Terminal box position |  | X3  |



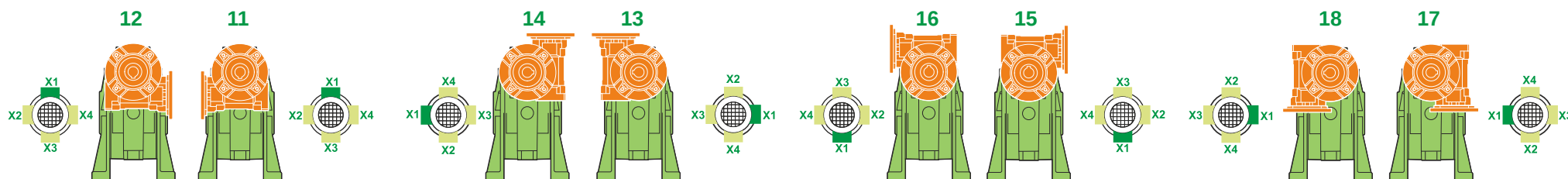
**Hollow output shaft**



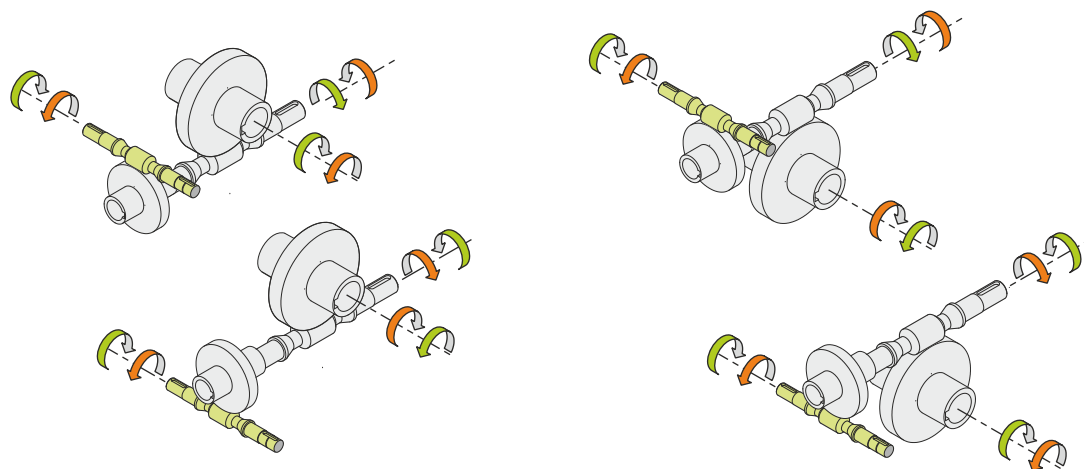
## Mounting positions



## Attachment position



## Direction of rotation



## Weight

|                     |     |
|---------------------|-----|
| Gear unit [kg]      | 5.2 |
| Electric motor [kg] | 4.3 |

## Gearing data 2

|   |                  |        |
|---|------------------|--------|
| 2 | Axial module     | 2.7    |
|   | Number of starts | 1      |
|   | Lead angle       | 6° 19' |
|   | Pressure angle   | 20°    |

## Backdriving

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

**M RS/RS 28/50 S (bolted) 11 420 63 B14 AC 24 MT 0.13 kW 63 A4 B14 X3 B3**