

## Input data

|                       |       |            |
|-----------------------|-------|------------|
| System of measurement |       | Metric     |
| Input type            |       | Gear motor |
| Input speed           | [rpm] | 1400       |
| Output speed          | [rpm] | 23.81      |
| Ratio (i=)            |       | 58.8       |
| Frequency             | [Hz]  | 50         |
| Input options         |       | IEC        |
| Requested input power | [kW]  | 1.5        |
| Service factor        |       | 2.2        |
| Rated Power P1        | [kW]  | 3.26       |

## Output data

|                  |                                                                       |
|------------------|-----------------------------------------------------------------------|
| <b>Gear unit</b> | <b>M RA 100/110 PC 10 58.8 90 B14 AC 42 MT 1.5 kW 90 L4 B14 X3 B3</b> |
|------------------|-----------------------------------------------------------------------|

|                     |       |                          |
|---------------------|-------|--------------------------|
| Type                |       | RA - Worm speed reducers |
| Input type          |       | M                        |
| Size                |       | 100/110                  |
| Ratio (i=)          |       | 58.8                     |
| Gearbox ratio       |       | 7.00                     |
| Pre-stage ratio     |       | 8.40                     |
| Input flange        |       | B14                      |
| Mounting position   |       | B3                       |
| Input speed         | [rpm] | 1400                     |
| Output speed        | [rpm] | 23.81                    |
| Rated output torque | [Nm]  | 481.32                   |
| Service Factor      |       | 2.2                      |
| Efficiency          |       | 0.8                      |

### Gear unit configuration

|                     |                     |
|---------------------|---------------------|
| Output shaft        | Hollow output shaft |
| Fixing              | Shaft mounting      |
| Version             | PC                  |
| Attachment position | 10                  |

### Output radial and axial loads

|                                   |     |       |
|-----------------------------------|-----|-------|
| Ball bearings output radial load  | [N] | 7800  |
| Taper bearings output radial load | [N] | 11100 |
| Ball bearings output axial load   | [N] | 1560  |
| Taper bearings output axial load  | [N] | 2220  |

### Accessories

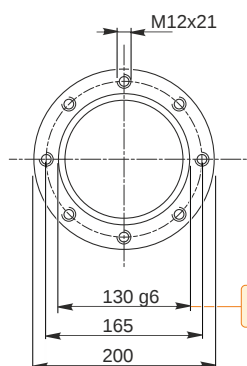
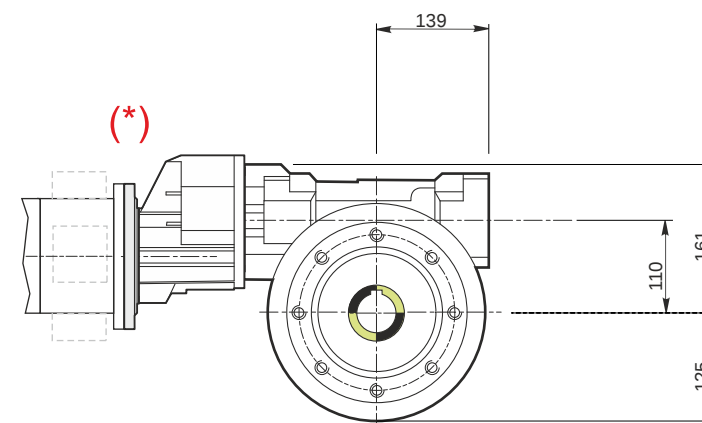
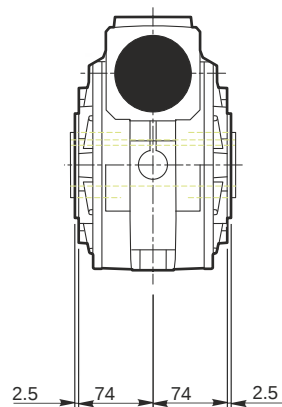
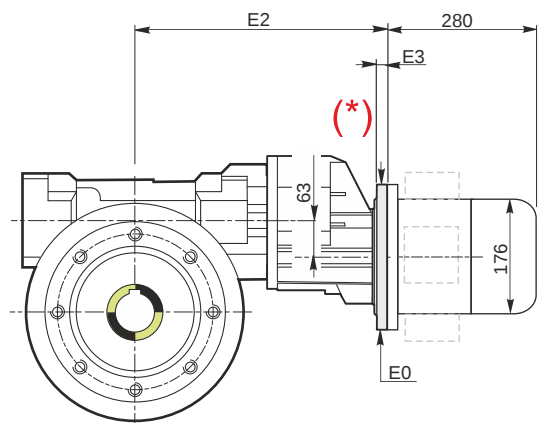
|                     |       |
|---------------------|-------|
| Hollow output shaft | AC 42 |
|---------------------|-------|

## Electric motor

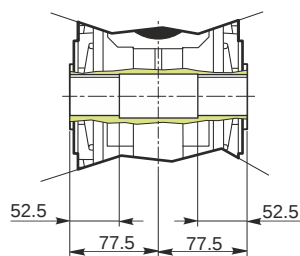
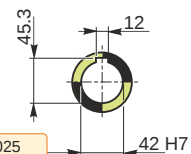
|       |      |       |
|-------|------|-------|
| Size  |      | 90 L4 |
| Poles |      | 4     |
| Power | [kW] | 1.5   |

### Electric motor configuration

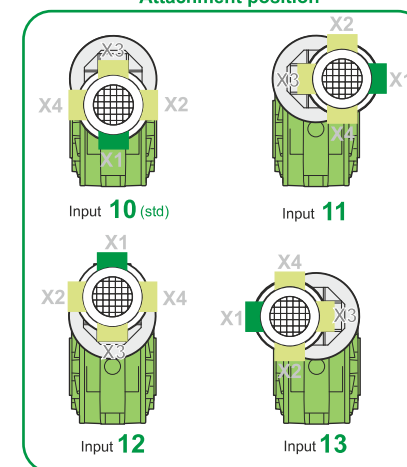
|                       |     |
|-----------------------|-----|
| Motor flange          | B14 |
| Terminal box position | X3  |



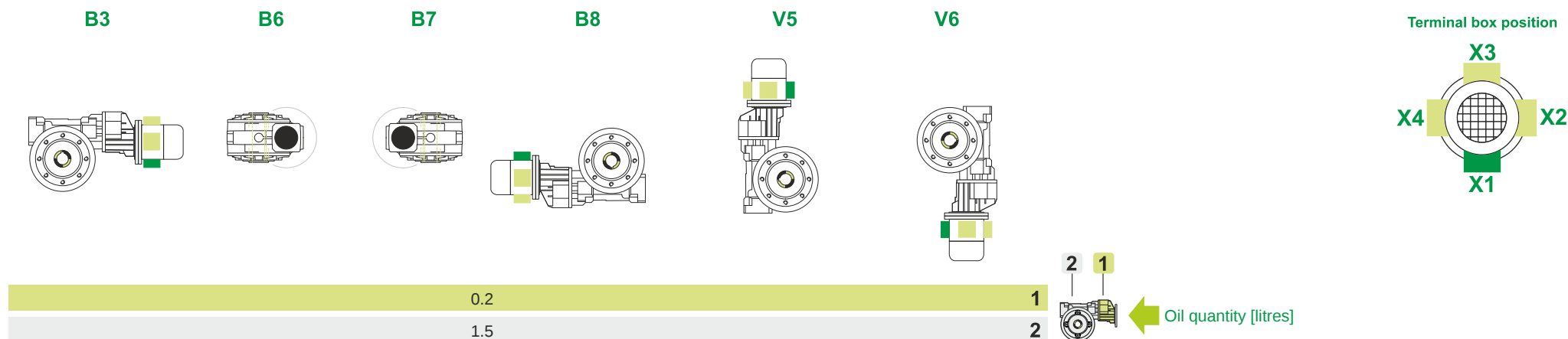
*Hollow output shaft*



**Attachment position**



## Mounting positions



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     | 6.1     |
| Number of starts | 4       |
| Lead angle       | 26° 22' |
| Pressure angle   | 20°     |

## Backdriving

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

**M RA 100/110 PC 10 58.8 90 B14 AC 42 MT 1.5 kW 90 L4 B14 X3 B3**