

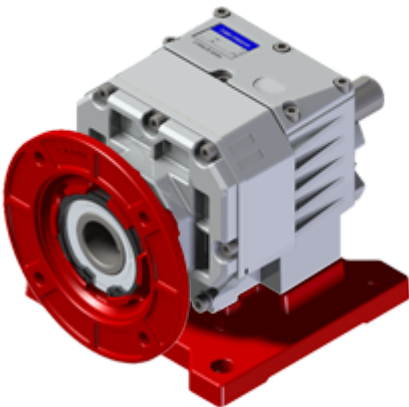
P412AM103VN-RB3D

Price

Lead time

Configuration

|                    |                    |
|--------------------|--------------------|
| Type:              | <b>P</b>           |
| Size:              | <b>412A</b>        |
| Input:             | <b>80 B14 ø120</b> |
| Output shaft/bore: | <b>ø25</b>         |
| Mounting:          | <b>M1</b>          |
| Mounting position: | <b>B3</b>          |
| Input bore:        | -                  |
| Coupling:          | -                  |



Technical data

|                              |                                |
|------------------------------|--------------------------------|
| Input rpm ( $n_1$ ):         | <b>1400 min<sup>-1</sup></b>   |
| Output rpm ( $n_2$ ):        | <b>251.78 min<sup>-1</sup></b> |
| Ratio (i):                   | <b>5.56 (03)</b>               |
| Nominal power ( $P_{1R}$ ):  | <b>2.75 kW</b>                 |
| Nominal torque ( $M_{2R}$ ): | <b>100 Nm</b>                  |
| Dynamic efficiency (RD):     | <b>96%</b>                     |

Selection

|                             |                |
|-----------------------------|----------------|
| Motor power ( $P_{1M}$ ):   | <b>0.75 kW</b> |
| Output torque ( $M_{2M}$ ): | <b>27 Nm</b>   |
| Service factor (f.s.):      | <b>3.7</b>     |

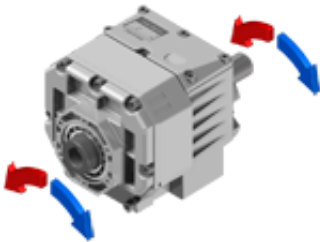
Lubrication

|               |                        |
|---------------|------------------------|
| Oil quantity: | <b>0.25l</b>           |
| AGIP:         | <b>Telium VSF 320</b>  |
| SHELL:        | <b>Omala S4 WE 320</b> |

On our website

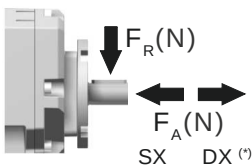
|                           |                          |
|---------------------------|--------------------------|
| Features                  | Atex certification       |
| How to order              | Installation check list  |
| Dimension                 | Spare parts list         |
| Accessories/options       | Complete catalogue       |
| Electric motors           | Selection by power (xls) |
| Selection guide - fs      |                          |
| Mounting pos. - lubricant |                          |
| Calc. the overhung load   |                          |

Direction of rotation



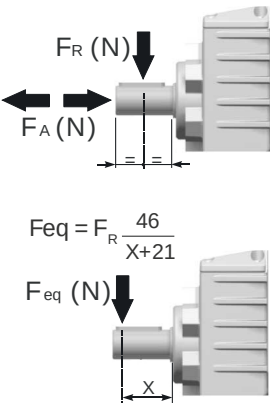
Axial and radial loads

Input shaft



| $n_2$<br>(min <sup>-1</sup> ) | FA<br>(N) | FR<br>(N) |
|-------------------------------|-----------|-----------|
| <b>1400</b>                   | 240       | 1200      |
| <b>900</b>                    | 280       | 1400      |
| <b>500</b>                    | 340       | 1700      |

Output shaft



$$F_{eq} = F_R \frac{46}{X+21}$$

| $n_2$<br>(min <sup>-1</sup> ) | FA<br>(N) | FR<br>(N) |
|-------------------------------|-----------|-----------|
| <b>300</b>                    | 310       | 1550      |
| <b>250</b>                    | 330       | 1650      |
| <b>200</b>                    | 360       | 1800      |
| <b>140</b>                    | 406       | 2030      |
| <b>120</b>                    | 448       | 2240      |
| <b>85</b>                     | 480       | 2400      |
| <b>70</b>                     | 540       | 2700      |
| <b>40</b>                     | 600       | 3000      |
| <b>15</b>                     | 600       | 3000      |

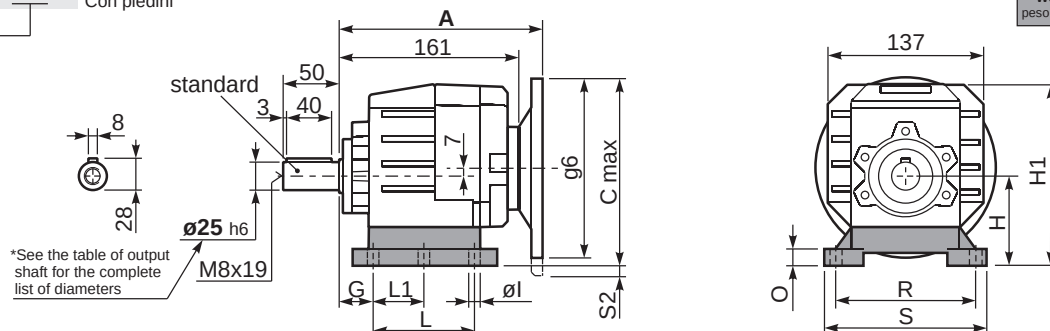
Note

Coaxial - Gear  
175Nm 412A

3D dimensions on the Web

P412A-B1... With feet  
Con piedini

Gearbox weight  
peso riduttore With flange 5.7 kg  
With feet 5.9 Kg



Feet / piedini

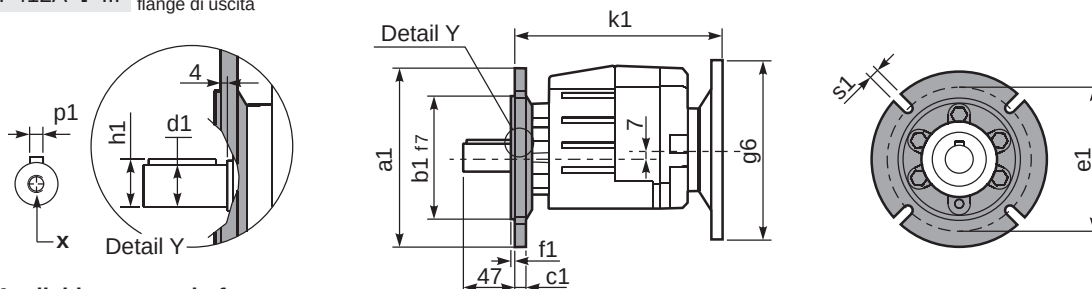
| Feet Code | Market reference | G  | H   | R       | L      | L1 | S   | H1    | O  | ØI | S2 only with motor flange | B5 max. Flange | kit code   |
|-----------|------------------|----|-----|---------|--------|----|-----|-------|----|----|---------------------------|----------------|------------|
| B1        | 112              | 18 | 85  | 110     | 87     | 50 | 130 | 167.5 | 15 | -  | 8/33 80/90B5 100/112B5    | -              | KC35.9.021 |
| B2        | 212/3            | 18 | 100 | 130     | 107.5  | 60 | 155 | 182.5 | 17 | 11 | 18 100/112B5              | -              | KC40.9.025 |
| S1        | 17               | 18 | 75  | 110     | 90÷110 | 50 | 145 | 155.5 | 15 | 9  | 18/43 80/90B5 100/112B5   | -              | KC40.9.022 |
| S2        | 27               | 25 | 90  | 110     | 130    | -  | 145 | 172.5 | 20 | 9  | 3/28 80/90B5 100/112B5    | -              | KC40.9.024 |
| H2        | 022-223          | 25 | 100 | 110     | 115    | -  | 145 | 182.5 | 20 | 9  | 18 100/112B5              | -              | KC40.9.026 |
| M1        | 42/3             | 25 | 80  | 110÷120 | 85     | -  | 145 | 162.5 | 15 | 9  | 13/38 80/90B5 100/112B5   | -              | KC40.9.023 |

Other feet are available, see our web site  
Sono disponibili altri piedini, consulta il nostro sito web

A see on page bottom

Most popular types  
Tipi più diffusi

P412A-F... Output flanges  
flange di uscita



\*Available output shaft / Albero di uscita

|                           | Shaft - d1 | p1 | h1   | x     |
|---------------------------|------------|----|------|-------|
| Standard                  | Ø 25x50    | 8  | 28   | M8x19 |
| On request<br>A richiesta | Ø 16x40    | 5  | 18   | M6x16 |
|                           | Ø 19x40    | 6  | 21.5 | M6x16 |
|                           | Ø 20x40    | 6  | 22.5 | M8x19 |
|                           | Ø 24x50    | 8  | 27   | M8x19 |

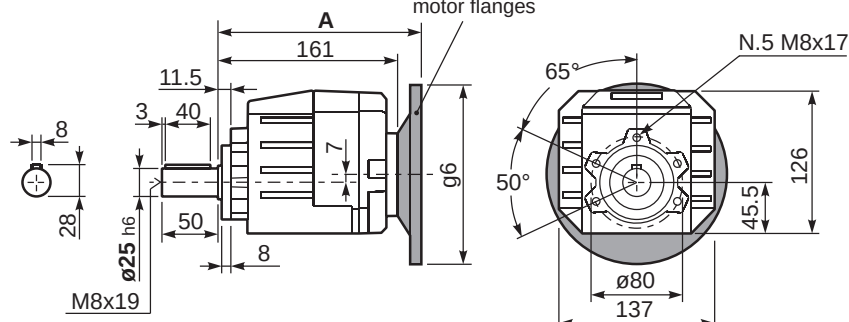
Available output flanges / flange di uscita

| a1 Ø | b1  | c1   | e1  | f1  | s1 | kit code   |
|------|-----|------|-----|-----|----|------------|
| 120  | 80  | 10   | 100 | 3   | 7  | KC40.9.010 |
| 140  | 95  | 10   | 115 | 3   | 9  | KC40.9.011 |
| 160  | 110 | 10   | 130 | 3.5 | 9  | KC40.9.012 |
| 200  | 130 | 10   | 165 | 3.5 | 11 | KC40.9.013 |
| 250  | 180 | 11.5 | 215 | 3.5 | 14 | KC40.9.014 |

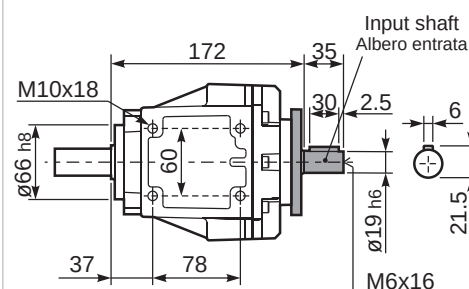
With flange and feet only on request. Ask for compatibility

P412A-N... Basic gearbox  
Riduttore base

Suggested B14 motor flanges



R412A-N... Input Shaft  
Albero in entrata



| B5 Motor Flanges | A     | C <sub>max</sub> | g6  | k1    | kit code   |
|------------------|-------|------------------|-----|-------|------------|
| 63 B5            | 181.5 | 177              | 140 | 185.5 | K063.4.041 |
| 71 B5            | 179.5 | 187              | 160 | 183.5 | K063.4.042 |
| 80/90 B5         | 181.5 | 207              | 200 | 185.5 | K063.4.043 |
| 100/112 B5       | 196.5 | 232              | 250 | 200.5 | KC40.4.043 |

| B14 Motor Flanges | A     | C <sub>max</sub> | g6  | k1    | kit code   |
|-------------------|-------|------------------|-----|-------|------------|
| 71 B14            | 179.5 | 159.5            | 105 | 183.5 | K063.4.047 |
| 80 B14            | 181.5 | 167              | 120 | 185.5 | K063.4.046 |
| 90 B14            | 181.5 | 177              | 140 | 185.5 | K063.4.041 |
| 100/112 B14       | 196.5 | 187              | 160 | 200.5 | KC40.4.041 |