

Technical Data Sheet  
Gearbox  
INLINE GEARBOX

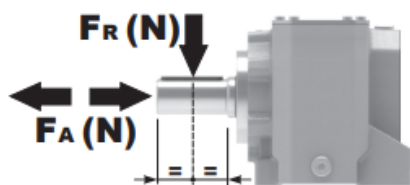


|                    |       |     |
|--------------------|-------|-----|
| MODEL              | 412A  |     |
| Ø OUTPUT SHAFT     | 25    | mm  |
| APPROXIMATE RATIO  | 4.5   |     |
| EXACT RATIO        | 4.37  |     |
| OUTPUT SPEED       | 324   | RPM |
| EXACT OUTPUT SPEED | 334   | RPM |
| INPUT POWER        | 1.50  | KW  |
| INPUT ROTATION     | 1400  | RPM |
| INPUT PAM          | 90B14 |     |
| OUTPUT TORQUE      | 42.92 | N.m |
| NOMINAL TORQUE     | 90.00 | N.m |
| NOMINAL POWER      | 3.1   | KW  |
| SERVICE FACTOR     | 2.07  |     |
| DYNAMIC EFFICIENCY | 0.96  |     |

Oil Quantity (L)

| B3/H1 | B6/H4 | B7/H3 | B8/H2 | V5/H5 | V6/H6 |
|-------|-------|-------|-------|-------|-------|
| 0.25  | 0.35  | 0.4   | 0.45  | 0.4   | 0.5   |

Radial and Axial Loads



| $n_2$ [min-1] | FA [N] | FR [N] |
|---------------|--------|--------|
| 300           | 310    | 1550   |
| 200           | 360    | 1800   |
| 120           | 448    | 2240   |
| 70            | 540    | 2700   |

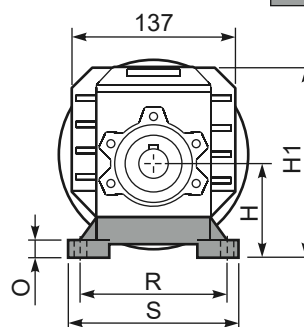
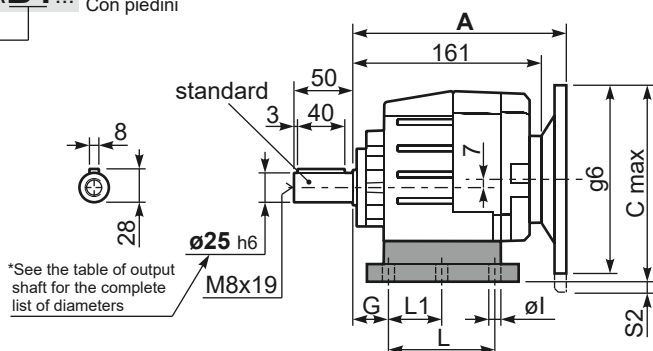
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P412A **B1** ... With feet  
Con piedini

|                                         |             |               |
|-----------------------------------------|-------------|---------------|
| <b>Gearbox weight</b><br>peso riduttore | With flange | <b>5.7 kg</b> |
|                                         | With feet   | <b>5.9 Kg</b> |



Feet / piedi

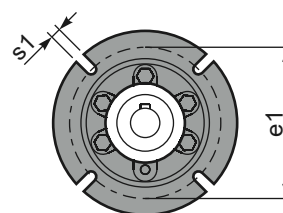
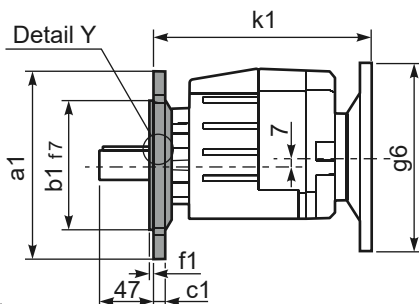
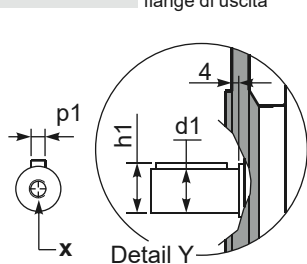
| Feet Code | Market reference | G  | H   | R       | L      | L1 | S   | H1    | O  | øI | S2 only with motor flange | B5 max. Flange       | kit code |            |
|-----------|------------------|----|-----|---------|--------|----|-----|-------|----|----|---------------------------|----------------------|----------|------------|
| B1        | 112              | 18 | 85  | 110     | 87     | 50 | 130 | 167.5 | 15 | -  | 8<br>33                   | 80/90B5<br>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<br>43                  | 80/90B5<br>100/112B5 | -        | KC40.9.022 |
| S2        | 27               | 25 | 90  | 110     | 130    | -  | 145 | 172.5 | 20 | 9  | 3<br>28                   | 80/90B5<br>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<br>38                  | 80/90B5<br>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

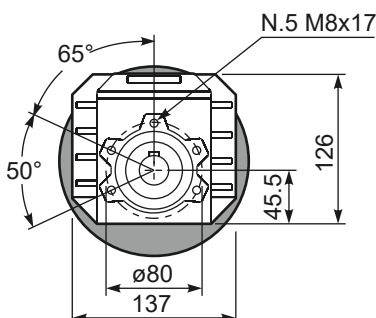
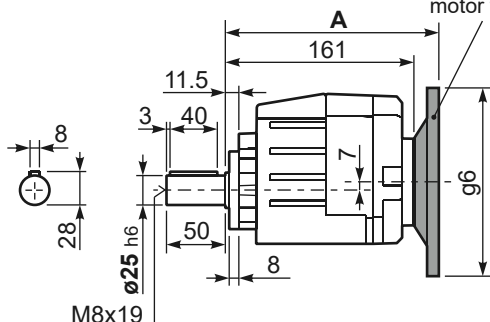
| a1 ø | b1  | c1   | e1  | f1  | s1 | kit code   |
|------|-----|------|-----|-----|----|------------|
| 120  | 80  | 10   | 100 | 3   | 7  | KC40.9.010 |
| 140  | 95  | 10   | 115 | 3   | 9  | KC40.9.011 |
| 160  | 110 | 10   | 130 | 3.5 | 9  | KC40.9.012 |
| 200  | 130 | 10   | 165 | 3.5 | 11 | KC40.9.013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

With flange an feet only on request. Ask for compatibility

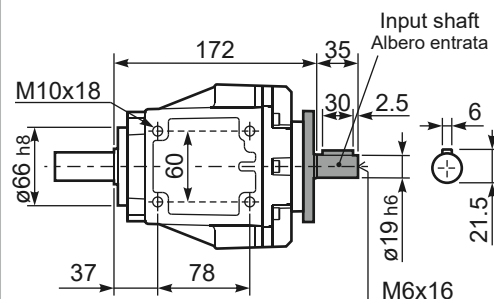
With flange and feet only on request. Ask for compatibility

|            |                                 |
|------------|---------------------------------|
| P412A-N... | Basic gearbox<br>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 |

| <b>B14 Motor Flanges</b> | <b>A</b> | <b>C<sub>max</sub></b> | <b>g6</b> | <b>k1</b> | <b>kit code</b> |
|--------------------------|----------|------------------------|-----------|-----------|-----------------|
| 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      |