

Technical Data Sheet  
Gearbox  
INLINE GEARBOX



|                    |           |
|--------------------|-----------|
| MODEL              | 202A      |
| Ø OUTPUT SHAFT     | 16 mm     |
| APPROXIMATE RATIO  | 29        |
| EXACT RATIO        | 28.88     |
| OUTPUT SPEED       | 50 RPM    |
| EXACT OUTPUT SPEED | 51 RPM    |
| INPUT POWER        | 0.09 KW   |
| INPUT ROTATION     | 1400 RPM  |
| INPUT PAM          | 56B14     |
| OUTPUT TORQUE      | 17.02 N.m |
| NOMINAL TORQUE     | 70.00 N.m |
| NOMINAL POWER      | 0.37 KW   |
| SERVICE FACTOR     | 4.11      |
| DYNAMIC EFFICIENCY | 0.96      |

#### Oil Quantity (L)

| B3/H1 | B6/H4 | B7/H3 | B8/H2 | V5/H5 | V6/H6 |
|-------|-------|-------|-------|-------|-------|
| 0.15  | 0.15  | 0.15  | 0.15  | 0.15  | 0.15  |

#### Radial and Axial Loads



| $n_2$ [min-1] | FA [N] | FR [N] |
|---------------|--------|--------|
| 300           | 140    | 700    |
| 200           | 185    | 924    |
| 120           | 270    | 1350   |
| 70            | 340    | 1700   |

Universal Motors S.A.  
Rua Comendador Brandão, 484  
4495-375 Póvoa de Varzim  
[geral@universalmotors.pt](mailto:geral@universalmotors.pt)  
TEL.: 252 299 080

Universal Motors UK, Ltd  
Unit E2, Meltham Mills Road  
West Yorkshire HD9 4AR  
[enquiries@universalmotors-group.co.uk](mailto:enquiries@universalmotors-group.co.uk)  
TEL.: +44(0) 1484660222

Universal Motors SL  
C/La Habana n.6 nave 4 PI Camporoso  
28806 Alcala de Henares  
[info@universalmotors-group.es](mailto:info@universalmotors-group.es)  
TEL.: 918 864 213

P202A**B1**...

With feet  
Con piedini



\*See the table of output shaft for the complete list of diameters

| 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 | 133 | 15 | 9  | -                         | -              | KC30.9.022   |
| B2        | 212/3            | 18 | 100 | 130 | 107.5 | 60 | 155 | 145 | 5  | 11 | -                         | -              | KC30.9.023LM |
| S1        | 17-32            | 18 | 75  | 110 | 110   | 50 | 130 | 123 | 15 | 9  | -                         | 63B5           | KC30.9.024   |

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

## P202A-F...

Output flanges  
flange di uscita



**\*Available output shaft / Albero di uscita**

|                           | Shaft - d1 | p1 | h1   | x     |
|---------------------------|------------|----|------|-------|
| Standard                  | ø 16x40    | 5  | 18   | M6x16 |
| On request<br>A richiesta | ø 14x30    | 5  | 16   | M6x16 |
|                           | ø 20x40    | 6  | 22.5 | M8x19 |
|                           | ø 25x50    | 8  | 28   | M8x19 |

### Available output flanges / flange di uscita

| a1 Ø | b1  | c1   | e1  | f1  | s1 | kit code   |
|------|-----|------|-----|-----|----|------------|
| 120  | 80  | 11.5 | 100 | 3   | 9* | KC30.9.010 |
| 140  | 95  | 11.5 | 115 | 3   | 9  | KC30.9.011 |
| 160  | 110 | 11.5 | 130 | 3.5 | 9  | KC30.9.012 |
| 200  | 130 | 11.5 | 165 | 3.5 | 11 | KC30.9.013 |



With flange and feet only on request. Ask for compatibility

 \* Holes position  
Posizione fori



With flange and feet only on request. Ask for compatibility

P202A-N...

Basic gearbox  
Riduttore base



## R202A-N..

Input Shaft  
Albero in entrata



| <b>B5 Motor<br/>Flanges</b> | <b>A</b> | <b>C<sub>max</sub></b> | <b>g6</b> | <b>k1</b> | <b>kit code</b> |
|-----------------------------|----------|------------------------|-----------|-----------|-----------------|
| <b>63 B5</b>                | 135.8    | 170                    | 140       | 139.3     | K050.4.041      |
| <b>71 B5</b>                | 133.3    | 180                    | 160       | 136.8     | K050.4.042      |

| <b>B14 Motor Flanges</b> | <b>A</b> | <b>C<sub>max</sub></b> | <b>g6</b> | <b>k1</b> | <b>kit code</b> |
|--------------------------|----------|------------------------|-----------|-----------|-----------------|
| 56 B14                   | 133.3    | 139                    | 80        | 136.8     | KC40.4.049      |
| 63 B14                   | 135.8    | 146                    | 90        | 139.3     | K050.4.047      |
| 71 B14                   | 133.3    | 152.5                  | 105       | 136.8     | K050.4.045      |