

Technical Data Sheet  
Gearbox  
INLINE GEARBOX



|                    |           |
|--------------------|-----------|
| MODEL              | 211A      |
| Ø OUTPUT SHAFT     | 14 mm     |
| APPROXIMATE RATIO  | 8         |
| EXACT RATIO        | 8.29      |
| OUTPUT SPEED       | 183 RPM   |
| EXACT OUTPUT SPEED | 176 RPM   |
| INPUT POWER        | 0.12 KW   |
| INPUT ROTATION     | 1400 RPM  |
| INPUT PAM          | 63B14     |
| OUTPUT TORQUE      | 6.24 N.m  |
| NOMINAL TORQUE     | 20.00 N.m |
| NOMINAL POWER      | 0.36 KW   |
| SERVICE FACTOR     | 3.00      |
| DYNAMIC EFFICIENCY | 0.92      |

Oil Quantity (L)

| B3/H1 | B6/H4 | B7/H3 | B8/H2 | V5/H5 | V6/H6 |
|-------|-------|-------|-------|-------|-------|
| 0.05  | 0.05  | 0.05  | 0.05  | 0.05  | 0.05  |

Radial and Axial Loads



| $n_2$ [min-1] | FA [N] | FR [N] |
|---------------|--------|--------|
| 700           | 101    | 504    |
| 400           | 138    | 696    |
| 200           | 175    | 876    |
| 140           | 192    | 960    |

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

**P<sub>211A</sub>-F...**

Basic wormbox  
Riduttore base

|                                         |                |
|-----------------------------------------|----------------|
| <b>Gearbox weight</b><br>peso riduttore | <b>1.40 kg</b> |
|-----------------------------------------|----------------|



| B5 Motor Flanges | A    | g6  | kit code   |
|------------------|------|-----|------------|
| 63 B5            | 99.5 | 138 | K050.4.041 |
| 71 B5            | 97   | 160 | K050.4.042 |

| <b>B14 Motor<br/>Flanges</b> | <b>A</b> | <b>g6</b> | <b>kit code</b> |
|------------------------------|----------|-----------|-----------------|
| 56 B14                       | 97       | 80        | KC40.4.049      |
| 63 B14                       | 99.5     | 90        | K050.4.047      |
| 71 B14                       | 97       | 105       | K050.4.045      |

## R211A-F...

Basic wormbox  
Riduttore base



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

|          | Shaft - d1 | p1 | h1 | x     |
|----------|------------|----|----|-------|
| Standard | ø 14x30    | 5  | 16 | M5x13 |