

|                        |           |
|------------------------|-----------|
| MODELO                 | 302A      |
| Ø VEIO SAÍDA           | 20 mm     |
| RÁCIO APROXIMADO       | 8         |
| RÁCIO EXATO            | 7.74      |
| VELOCIDADE SAÍDA       | 183 RPM   |
| VELOCIDADE SAÍDA EXATA | 189 RPM   |
| POTÊNCIA ENTRADA       | 1.50 KW   |
| ROTAÇÃO ENTRADA        | 1400 RPM  |
| PAM ENTRADA            | 90B14     |
| TORQUE SAÍDA           | 76.02 N.m |
| TORQUE NOMINAL         | 80.00 N.m |
| POTÊNCIA NOMINAL       | 1.6 KW    |
| FATOR SERVIÇO          | 1.07      |
| EFICIÊNCIA DINÂMICA    | 0.96      |

QUANTIDADE DE ÓLEO (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  |

CARGAS RADIAIS E AXIAIS



| $n_2$ [min-1] | $F_A$ [N] | $F_R$ [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

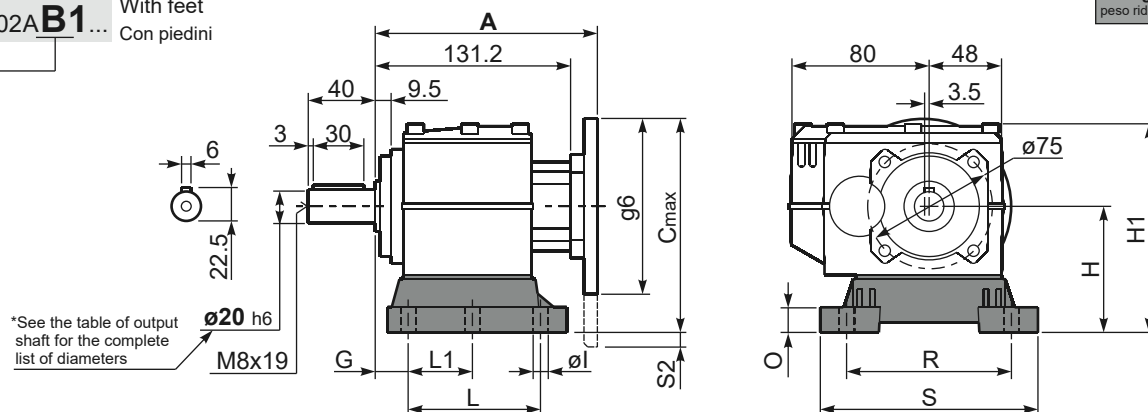
Universal Motors UK, Ltd  
Unit E2, Meltham Mills Road  
West Yorkshire HD9 4AR  
[enquiries@universalmotors-group.co.uk](mailto:enquiries@universalmotors-group.co.uk)  
TEL.: +44(0) 1484660222

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

**Gearbox weight**  
peso riduttore

With flange **3.5 kg**  
With feet **4.0 Kg**

**P302A-B1...** With feet  
Con piedini



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

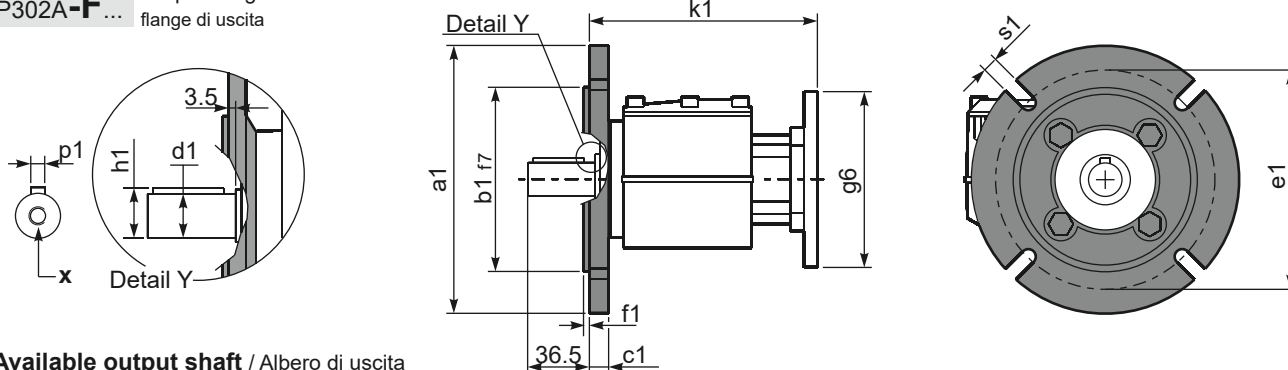
| Feet Code | Market reference | G  | H   | R   | L     | L1 | S   | H1  | O  | Ø  | S2 only with motor flange | B5 max. Flange | kit code     |
|-----------|------------------|----|-----|-----|-------|----|-----|-----|----|----|---------------------------|----------------|--------------|
| <b>B1</b> | 112              | 18 | 85  | 110 | 87    | 50 | 130 | 133 | 15 | 9  | 15 80/90B5                | -              | KC30.9.022   |
| <b>B2</b> | 212/3            | 18 | 100 | 130 | 107.5 | 60 | 155 | 145 | 5  | 11 | 3.5 80/90B5               | -              | KC30.9.023LM |
| <b>S1</b> | 17-32            | 18 | 75  | 110 | 110   | 50 | 130 | 123 | 15 | 9  | 5 71B5                    | 71B5           | 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

**P302A-F...** Output flanges  
flange di uscita



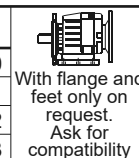
\*Available output shaft / Albero di uscita

|                           | Shaft - d1 | p1 | h1   | x     |
|---------------------------|------------|----|------|-------|
| Standard                  | Ø 20x40    | 6  | 22.5 | M8x19 |
| On request<br>A richiesta | Ø 14x30    | 5  | 16   | M6x16 |
|                           | Ø 16x40    | 5  | 18   | M6x16 |
|                           | Ø 19x40    | 6  | 21.5 | M6x16 |
|                           | Ø 24x50    | 8  | 27   | M8x19 |
|                           | Ø 25x50    | 8  | 28   | M8x19 |

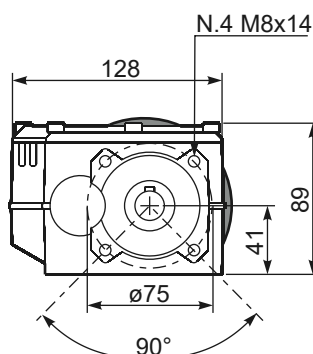
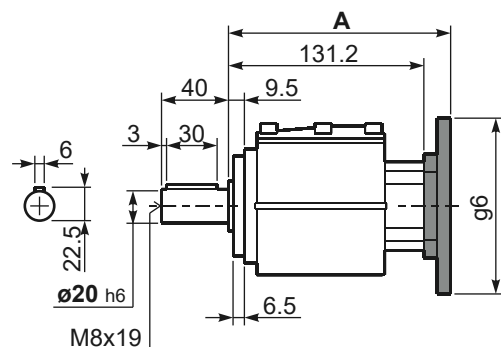
Available output flanges / flange di uscita

| 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 |

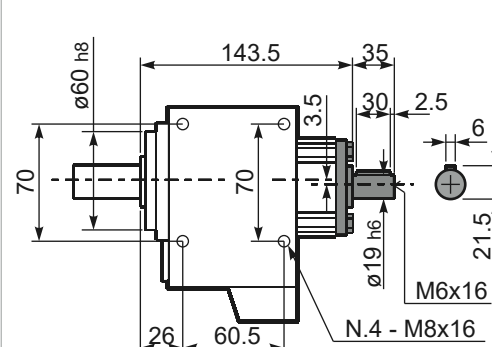
\* Holes position  
Posizione fori



**P302A-N...** Basic gearbox  
Riduttore base



**R302A-N...** Input Shaft  
Albero in entrata



| B5 Motor Flanges | A     | C <sub>max</sub> | g6  | k1    | kit code   |
|------------------|-------|------------------|-----|-------|------------|
| 63 B5            | 151.7 | 170              | 140 | 155.2 | K063.4.041 |
| 71 B5            | 149.7 | 180              | 160 | 153.2 | K063.4.042 |
| 80/90 B5         | 151.7 | 200              | 200 | 155.2 | K063.4.043 |

| B14 Motor Flanges | A     | C <sub>max</sub> | g6  | k1    | kit code   |
|-------------------|-------|------------------|-----|-------|------------|
| 71 B14            | 149.7 | 152.5            | 105 | 153.2 | K063.4.047 |
| 80 B14            | 151.7 | 160              | 120 | 155.2 | K063.4.046 |
| 90 B14            | 151.7 | 170              | 140 | 155.2 | K063.4.041 |