

Technical Data Sheet  
Gearbox  
INLINE GEARBOX



|                    |           |
|--------------------|-----------|
| MODEL              | 511A      |
| Ø OUTPUT SHAFT     | 28 mm     |
| APPROXIMATE RATIO  | 11        |
| EXACT RATIO        | 10.50     |
| OUTPUT SPEED       | 133 RPM   |
| EXACT OUTPUT SPEED | 139 RPM   |
| INPUT POWER        | 0.75 KW   |
| INPUT ROTATION     | 1400 RPM  |
| INPUT PAM          | 80B14     |
| OUTPUT TORQUE      | 49.42 N.m |
| NOMINAL TORQUE     | 80.00 N.m |
| NOMINAL POWER      | 1.1 KW    |
| SERVICE FACTOR     | 1.47      |
| DYNAMIC EFFICIENCY | 0.92      |

#### Oil Quantity (L)

| B3/H1 | B6/H4 | B7/H3 | B8/H2 | V5/H5 | V6/H6 |
|-------|-------|-------|-------|-------|-------|
| 0.29  | 0.29  | 0.29  | 0.29  | 0.29  | 0.29  |

#### Radial and Axial Loads



| $n_2$ [min-1] | FA [N] | FR [N] |
|---------------|--------|--------|
| 700           | 294    | 1470   |
| 400           | 370    | 1850   |
| 200           | 460    | 2300   |
| 140           | 510    | 2550   |

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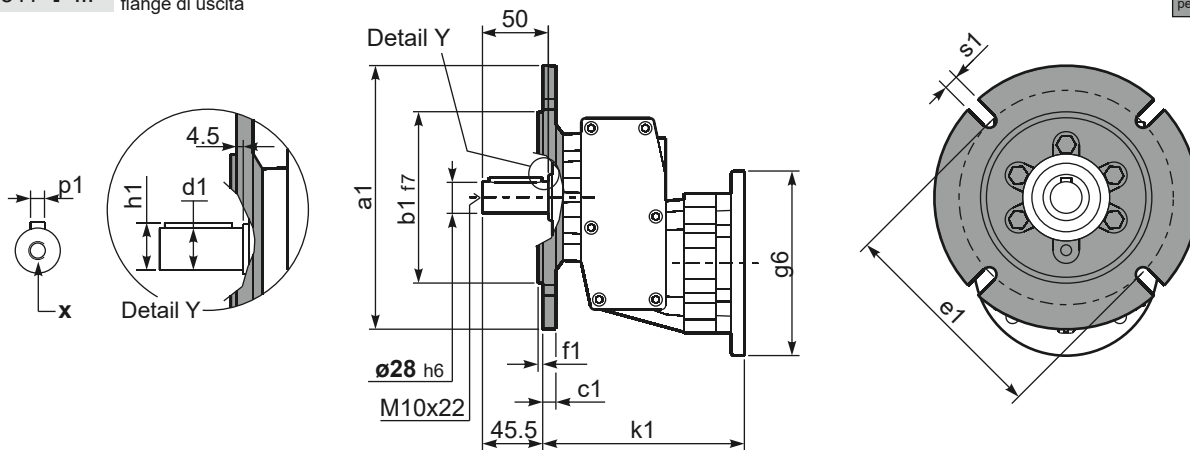
Universal Motors SL  
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**Output flanges**  
flange di uscita

**Gearbox weight**  
peso riduttore

5.00 kg



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

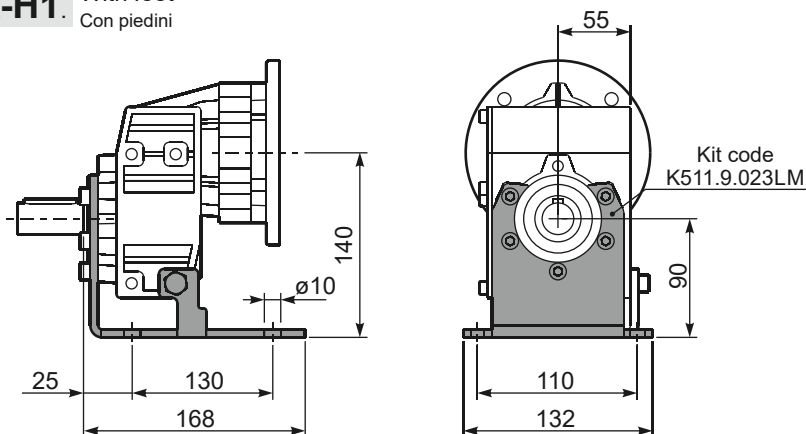
|                           | Shaft - d1 | p1 | h1 | x      |
|---------------------------|------------|----|----|--------|
| Standard                  | ø 28x50    | 8  | 31 | M10x22 |
| On request<br>A richiesta | ø 24x50    | 8  | 27 | M8x19  |

### Available output flanges / flange di uscita

| <b>a1 Ø</b> | <b>b1</b> | <b>c1</b> | <b>e1</b> | <b>f1</b> | <b>s1</b> | <b>kit code</b> |
|-------------|-----------|-----------|-----------|-----------|-----------|-----------------|
| 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       | 11        | 165       | 3.5       | 11        | KC40.9.013      |
| 250         | 180       | 11.5      | 215       | 3.5       | 14        | KC40.9.014      |

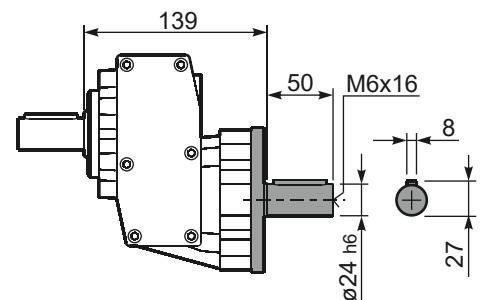
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With feet  
Con piedini



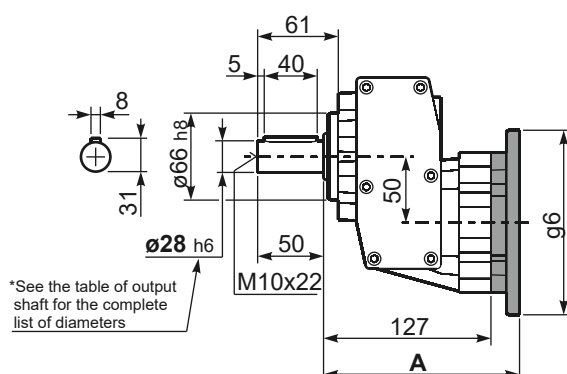
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Input Shaft  
Albero in entrata

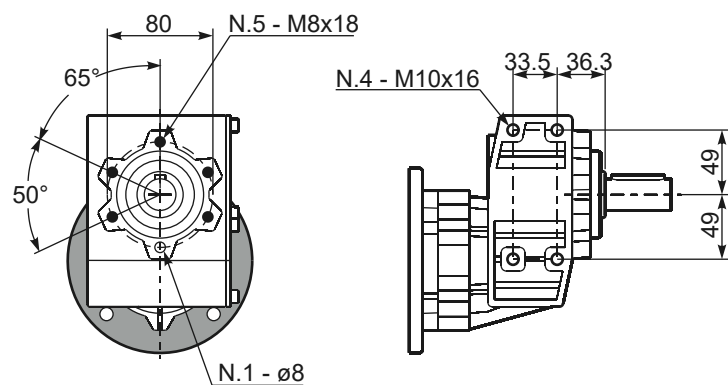


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Basic gearbox  
Riduttore base



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



| B5 Motor Flanges | A     | g6  | k1  | kit code   |
|------------------|-------|-----|-----|------------|
| 71 B5            | 145.5 | 160 | 150 | K023.4.041 |
| 80/90 B5         | 147.5 | 200 | 152 | K023.4.042 |
| 100/112 B5       | 156.5 | 250 | 161 | K023.4.043 |
| 132 B5           | 174.5 | 300 | 179 | KC50.4.043 |

| <b>B14 Motor Flanges</b> | <b>A</b> | <b>g6</b> | <b>k1</b> | <b>kit code</b> |
|--------------------------|----------|-----------|-----------|-----------------|
| 80 B14                   | 147.5    | 120       | 152       | K085.4.046      |
| 90 B14                   | 147.5    | 140       | 152       | K085.4.045      |
| 100/112 B14              | 156.5    | 160       | 161       | K085.4.047      |
| 132 B14                  | 174.5    | 200       | 179       | KC50.4.041      |