

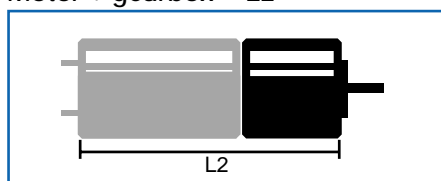
Ratio<sup>1)</sup> ... 3.67 5 13.4 18.3 25 49.3 67.2 91.7 125 180.8 246.5 336.1 458.3 625 903.8

|                        | 1                          | 1    | 2    | 2    | 2    | 3    | 3    | 3    | 3    | 4    | 4    | 4    | 4    | 4    | 5    |
|------------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 No. of gear stages   | 1                          | 1    | 2    | 2    | 2    | 3    | 3    | 3    | 3    | 4    | 4    | 4    | 4    | 4    | 5    |
| 2 Dir. of rotation     | =                          | =    | =    | =    | =    | =    | =    | =    | =    | =    | =    | =    | =    | =    | =    |
| 3 Efficiency           | 0.8                        | 0.8  | 0.7  | 0.7  | 0.7  | 0.6  | 0.6  | 0.6  | 0.6  | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.5  |
| 4 L1 (mm)              | 22.6                       | 22.6 | 29.5 | 29.5 | 29.5 | 36.4 | 36.4 | 36.4 | 36.4 | 43.3 | 43.3 | 43.3 | 43.3 | 43.3 | 50.2 |
| 5 Mass (g)             | 26                         | 26   | 33   | 33   | 33   | 40   | 40   | 40   | 40   | 47   | 47   | 47   | 47   | 47   | 54   |
| 6 Available with motor | L2- length with motor (mm) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 22N28 • 286            | 54.6                       | 54.6 | 61.5 | 61.5 | 61.5 | 68.4 | 68.4 | 68.4 | 68.4 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 82.2 |
| 22V28 • 201            | 57                         | 57   | 63.9 | 63.9 | 63.9 | 70.8 | 70.8 | 70.8 | 70.8 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 84.6 |
| 23LT12 • 45            | 59.7                       | 59.7 | 66.6 | 66.6 | 66.6 | 73.5 | 73.5 | 73.5 | 73.5 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 87.3 |
| 23V58 • 4              | 71.4                       | 71.4 | 78.3 | 78.3 | 78.3 | 85.2 | 85.2 | 85.2 | 85.2 | 92.1 | 92.1 | 92.1 | 92.1 | -    | -    |
| 23DT12 • 38 / • 93     | 73.1                       | 73.1 | 80   | 80   | 80   | 86.9 | 86.9 | 86.9 | 86.9 | 93.8 | 93.8 | 93.8 | 93.8 | -    | -    |
| 26N58 • 5              | 65.9                       | 65.9 | 72.8 | 72.8 | 72.8 | 79.7 | 79.7 | 79.7 | 79.7 | 86.6 | 86.6 | 86.6 | 86.6 | -    | -    |
| 28L28 • 164            | 66.1                       | 66.1 | 73   | 73   | 73   | 79.9 | 79.9 | 79.9 | 79.9 | 86.8 | 86.8 | 86.8 | 86.8 | -    | -    |
| 28LT12 • 164           | 65.8                       | 65.8 | 72.7 | 72.7 | 72.7 | 79.6 | 79.6 | 79.6 | 79.6 | 86.5 | 86.5 | 86.5 | -    | -    | -    |
| 22BC                   | 44.3                       | 44.3 | 51.2 | 51.2 | 51.2 | 58.1 | 58.1 | 58.1 | 58.1 | 65   | 65   | 65   | 65   | 65   | 71.9 |

Also available: 22N48 • 308 / 22V48 • 204 / 23V48 • 11 / 26N48 • 9

Availability: see enclosed document at the end of the catalogue

Motor + gearbox = L2



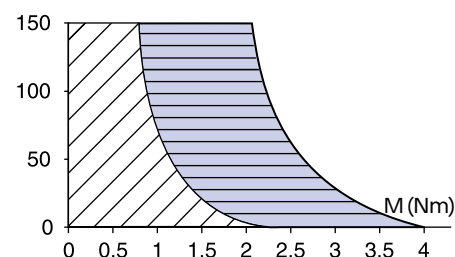
1) ratios 1232, 1680, 2292, 3125, available onrequest

Characteristics

M22 • 0 / • 200

|  |            |                         |
|--|------------|-------------------------|
| 7 Bearing type                                 |            | sleeve bearings         |
| 8 Max. static torque                           | Nm (oz-in) | 4 (556)                 |
| 9 Max. radial force at 8 mm from mounting face | N (lb)     | 50 (11)                 |
| 10 Max. axial force                            | N (lb)     | 70 (16)                 |
| 11 Force for press-fit                         | N (lb)     | 100 (22)                |
| 12 Average backlash at no-load                 |            | 2°                      |
| 13 Average backlash at 1 Nm                    |            | 3°                      |
| 14 Radial play                                 | µm         | < 200                   |
| 15 Axial play                                  | µm         | 50 -150                 |
| 16 Max. recom. input speed                     | rpm        | 7500                    |
| 17 Operating temperature range                 | °C (°F)    | -30 ... +65(-22...+150) |

n (rpm) Dynamic torque



Values at the output shaft  
/ Continuous working range  
  Temporary working range