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|-------------|---|
| MOTOR | Permanent magnet DC motor |
| PROTECTION | Totally enclosed (IP54) |
| GEARBOX | Worm and wheel (S) |
| MOTOR POWER | 19 - 70 Watts |
| SPEED | 21 - 970 rpm |
| VOLTAGE | 12V - 220V DC available range |
| WEIGHT | 1.3 kg |
| RADIAL LOAD | 69 N |
| AXIAL LOAD | 35 N |
| SHAFT TYPE | Single ended or double ended upon request |
| EXTRAS | See page 36 |



See page 158 to specify shaft and gearbox position

| RATIO | MOTOR SPEED (rpm) | | | | TORQUE (Nm) | | | | | |
|--------|--------------------|------|------|------|-------------|--------|-----------|--------|-----------|--------|
| | 1500 | 2000 | 3000 | 4000 | CONTINUOUS | | 1 HOUR | | 15 MINUTE | |
| | OUTPUT SPEED (rpm) | | | | Composite | Bronze | Composite | Bronze | Composite | Bronze |
| 70 | 21 | 29 | 43 | 57 | 1.5 | 2.5 | 1.5 | 2.5 | 1.5 | 2.5 |
| 66 | 23 | 30 | 45 | 61 | 1.5 | 2.5 | 1.5 | 2.5 | 1.5 | 2.5 |
| 60 | 25 | 33 | 50 | 67 | 2.3 | 2.6 | 2.3 | 3.1 | 2.3 | 3.8 |
| 54 | 28 | 37 | 56 | 74 | 2.3 | 2.5 | 2.3 | 3.0 | 2.3 | 3.6 |
| 48 | 31 | 42 | 63 | 83 | 2.3 | 2.3 | 2.3 | 2.8 | 2.3 | 3.4 |
| 40 | 38 | 50 | 75 | 100 | 2.1 | 2.1 | 2.5 | 2.5 | 2.9 | 3.1 |
| 36 | 42 | 56 | 83 | 111 | 2.0 | 2.0 | 2.3 | 2.3 | 2.9 | 2.9 |
| 33 | 45 | 61 | 91 | 121 | 1.9 | 1.9 | 2.2 | 2.2 | 2.7 | 2.7 |
| 30 | 50 | 67 | 100 | 133 | 1.8 | 1.8 | 2.1 | 2.1 | 2.6 | 2.6 |
| 27 | 56 | 74 | 111 | 148 | 1.7 | 1.7 | 2.0 | 2.0 | 2.4 | 2.4 |
| 25 | 60 | 80 | 120 | 160 | 1.6 | 1.6 | 1.9 | 1.9 | 2.3 | 2.3 |
| 22 1/2 | 67 | 89 | 133 | 178 | 1.5 | 1.5 | 1.7 | 1.7 | 2.1 | 2.1 |
| 20 1/2 | 73 | 98 | 146 | 195 | 1.4 | 1.4 | 1.6 | 1.6 | 2.0 | 2.0 |
| 18 1/2 | 81 | 108 | 162 | 216 | 1.3 | 1.3 | 1.5 | 1.5 | 1.9 | 1.9 |
| 16 1/2 | 91 | 121 | 182 | 242 | 1.2 | 1.2 | 1.4 | 1.4 | 1.7 | 1.7 |
| 15 1/2 | 97 | 129 | 194 | 258 | 1.1 | 1.1 | 1.3 | 1.3 | 1.6 | 1.6 |
| 14 1/2 | 103 | 138 | 207 | 276 | 1.1 | 1.1 | 1.3 | 1.3 | 1.6 | 1.6 |
| 13 1/2 | 111 | 148 | 222 | 296 | 1.0 | 1.0 | 1.2 | 1.2 | 1.5 | 1.5 |
| 12 1/2 | 120 | 160 | 240 | 320 | 1.0 | 1.0 | 1.2 | 1.2 | 1.4 | 1.4 |
| 11 1/3 | 132 | 176 | 265 | 353 | 0.9 | 0.9 | 1.1 | 1.1 | 1.3 | 1.3 |
| 10 1/3 | 145 | 194 | 290 | 387 | 0.8 | 0.8 | 1.0 | 1.0 | 1.2 | 1.2 |
| 9 1/3 | 161 | 214 | 321 | 429 | 0.8 | 0.8 | 0.9 | 0.9 | 1.1 | 1.1 |
| 8 1/3 | 180 | 240 | 360 | 480 | 0.7 | 0.7 | 0.9 | 0.9 | 1.0 | 1.0 |
| 7 1/4 | 207 | 276 | 414 | 552 | 0.7 | 0.7 | 0.8 | 0.8 | 0.9 | 0.9 |
| 6 1/4 | 240 | 320 | 480 | 640 | 0.6 | 0.6 | 0.7 | 0.7 | 0.8 | 0.8 |
| 5 1/6 | 290 | 387 | 581 | 774 | 0.5 | 0.5 | 0.6 | 0.6 | 0.7 | 0.7 |
| 4 1/8 | 364 | 485 | 727 | 970 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | 0.6 |

