

Motor HP -- Impeller Selections

Most selections using ODP motors utilize a portion of the motor service factor. The lower the HP, the larger the service factor.
 NOTE: NEMA service factor for the TEFC and EXPL motors is 1.0. Some TEFC motors have a service factor. Contact factory.
 Listed below are the NEMA standard service factors for ODP motors.

| Nameplate Horsepower ODP Motors | NEMA Service Factor (S.F.) ODP Motors | Total Available Horsepower Using 100% of Service Factor | Nameplate Horsepower ODP Motors | NEMA Service Factor (S.F.) ODP Motors | Total Available Horsepower Using 100% of Service Factor |
|--|--|--|---|--|--|
| J56 - 3500 RPM | | | C56, J56, JM, JP, TCZ - 1750 RPM | | |
| .33 | 1.75 | .58 | .18 | 1.35 | .22 |
| .50 | 1.60 | .80 | .25 | 1.35 | .34 |
| .75 | 1.50 | 1.13 | .33 | 1.35 | .45 |
| 1 | 1.40 | 1.40 | .50 | 1.25 | .63 |
| 1.5 | 1.30 | 1.95 | .75 | 1.25 | .94 |
| 2 | 1.25 | 2.50 | 1 | 1.15 | 1.15 |
| 3 | 1.15 | 3.45 | 1.5 | 1.15 | 1.67 |
| JM, JP - 3500 RPM | | | 2 | 1.15 | 2.23 |
| 1 | 1.15 | 1.15 | 3 | 1.15 | 3.45 |
| 1.5 | 1.15 | 1.67 | 5 | 1.15 | 5.75 |
| 2 | 1.15 | 2.23 | 7.5 | 1.15 | 8.60 |
| 3 | 1.15 | 3.45 | 10 | 1.15 | 11.50 |
| 5 | 1.15 | 5.75 | 15 | 1.15 | 17.20 |
| 7.5 | 1.15 | 8.60 | 20 | 1.15 | 22.30 |
| 10 | 1.15 | 11.50 | 25 | 1.15 | 28.70 |
| 15 | 1.15 | 17.20 | 30 | 1.15 | 34.50 |
| 20 | 1.15 | 22.30 | 40 | 1.15 | 46.00 |
| 25 | 1.15 | 28.70 | 50 | 1.15 | 57.50 |
| 30 | 1.15 | 34.50 | JM, JP - 1150 RPM | | |
| 40 | 1.15 | 46.00 | 1 | 1.15 | 1.15 |
| 50 | 1.15 | 57.50 | 1.5 | 1.15 | 1.67 |
| 60 | 1.15 | 69.00 | 2 | 1.15 | 2.23 |
| 75 | 1.15 | 86.25 | 3 | 1.15 | 3.45 |
| 100 | 1.15 | | 5 | 1.15 | 5.75 |
| | | | 7.5 | 1.15 | 8.60 |
| | | | 10 | 1.15 | 11.50 |
| | | | 15 | 1.15 | 17.20 |