



SYNCHRONOUS MOTOR FAMILY

Series DA, DB Reversible Hysteresis Synchronous Motor



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|--|---|
| Output Speed: | 120 RPM to 24 RPD |
| Insulation Class: | Class A (105°C) |
| Lead Wire: | 4 leads 22AWG (approx. 9 inches [228.6 mm]) |
| Operation Ambient Temp: | -10°C to +40°C (approx.) |
| Temperature Rise: | 40 °C Max |
| Shaft Bearing: | Sleeve Bearing |
|  Recognition: | E37163, Component Time Indicating and Recording Appliances, 115Vac 60 Hz Standard Rotor |
|  Certification: | Card No. 42576, Motors and Generators, 115 Vac, 60 Hz, Standard Rotor, 3 watts max. |
| Capacitor is required for operation. Capacitor supplied with 115 Vac motors. | |
| Note: Typical data subject to change without notification | |

Heavy duty DA and DB Series gear motors maintain timing accuracy and are offered in a very broad range of shaft speeds from 120 RPM through 24 RPD. These motors are recommended especially for applications requiring high gear torque ratings (100 oz-in [706.2 mN-m] maximum) and small size (DA case size: 2.5" [63.5 mm] dia. x 1.75" [44.5 mm] depth). Add 0.25" [6.35 mm] to depth for DB case size.

Gear train materials include high quality bronze bearings, brass gears, hardened steel pinions and wheel shafts.

Notes:

- A capacitor is required for operation and is supplied with 115V motors.

| Model | Part Number | Reduction | Rated Torque (oz-in) | Rated Torque (mN-m) | Output Speed (RPM) | Output Speed (RPH) | Output Speed (RPD) | Input Power (watts) | Voltage (VAC) 50HZ | Voltage (VAC) 60HZ | Capacitor Value (mfd) | Capacitor not supplied | Weight (oz) | Weight (g) |
|-------|-------------|-----------|----------------------|---------------------|--------------------|--------------------|--------------------|---------------------|--------------------|--------------------|--------------------------|------------------------|-------------|------------|
| DA | 991139 | 3000 | 100 | 706.2 | 1 | 60 | 1440 | 5 | 115 | | 0.62 | | 14 | 396.9 |
| DA | 992684 | 3600 | 100 | 706.2 | 1 | 60 | 1440 | 5 | | 230 | 0.12 440VAC +/-10% | X | 14 | 396.9 |
| DA | 992755 | 3000 | 100 | 706.2 | 1 | 60 | 1440 | 5 | 220 | | 0.17 | X | 14 | 396.9 |
| DA | 990181 | 1800 | 75 | 529.6 | 2 | 120 | 2880 | 5 | | 115 | 0.5 | | 14 | 396.9 |
| DA | 990184 | 900 | 37.5 | 264.8 | 4 | 240 | 5760 | 5 | | 115 | 0.5 | | 14 | 396.9 |
| DA | 990185 | 600 | 25 | 176.5 | 6 | 360 | 8640 | 5 | | 115 | 0.5 | | 14 | 396.9 |
| DA | 991143 | 500 | 20 | 141.2 | 6 | 360 | 8640 | 5 | 115 | | 0.62 | | 14 | 396.9 |
| DA | 990186 | 450 | 18.75 | 132.4 | 8 | 480 | 11520 | 5 | | 115 | 0.5 | | 14 | 396.9 |
| DA | 990187 | 360 | 15 | 105.9 | 10 | 600 | 14400 | 5 | | 115 | 0.5 | | 14 | 396.9 |
| DA | 990190 | 300 | 12.5 | 88.3 | 12 | 720 | 17280 | 5 | | 115 | 0.5 | | 14 | 396.9 |
| DA | 990194 | 180 | 7.5 | 53 | 20 | 1200 | 28800 | 5 | | 115 | 0.5 | | 14 | 396.9 |
| DA | 990195 | 120 | 5 | 35.3 | 30 | 1800 | 43200 | 5 | | 115 | 0.5 | | 14 | 396.9 |
| DA | 990263 | 60 | 2.5 | 17.7 | 60 | 3600 | 86400 | 5 | | 115 | 0.5 | | 14 | 396.9 |
| DA | 990200 | 30 | 1.25 | 8.8 | 120 | 7200 | 172800 | 5 | | 115 | 0.5 | | 14 | 396.9 |
| DB | 990401 | 216000 | 100 | 706.2 | 0.02 | 1 | 24 | 5 | | 115 | 0.5 | | 14 | 396.9 |
| DB | 990405 | 180000 | 100 | 706.2 | 0.02 | 1.2 | 28.8 | 5 | | 115 | 0.5 | | 14 | 396.9 |
| DB | 990398 | 108000 | 100 | 706.2 | 0.03 | 2 | 48 | 5 | | 115 | 0.5 | | 14 | 396.9 |
| DB | 992642 | 45000 | 100 | 706.2 | 0.07 | 4 | 96 | 5 | 115 | | 0.62 | | 14 | 396.9 |
| DB | 990419 | 54000 | 100 | 706.2 | 0.07 | 4 | 96 | 5 | | 115 | 0.5 | | 14 | 396.9 |
| DB | 990418 | 18000 | 100 | 706.2 | 0.2 | 12 | 288 | 5 | | 115 | 0.5 | | 14 | 396.9 |
| DB | 990400 | 14400 | 100 | 706.2 | 0.25 | 15 | 360 | 5 | | 115 | 0.5 | | 14 | 396.9 |
| DB | 990395 | 9000 | 100 | 706.2 | 0.4 | 24 | 576 | 5 | | 115 | 0.5 | | 14 | 396.9 |

