

Stepping Motors

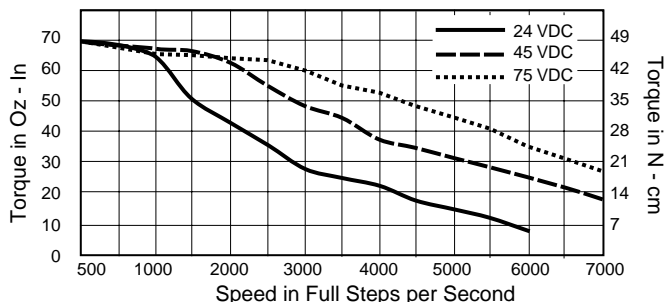
ENHANCED SIZE 23 1.8° HYBRID STEPPING MOTORS

| Specifications S=Single Shaft (D=Double Shaft) | Holding Torque oz-in (N-cm) | Phase Current Amps | Number of Leads | Phase Resistance Ohms | Phase Inductance mH | Detent Torque oz-in (N-cm) | Rotor Inertia oz-in-sec ² (kg-cm ²) | L _{MAX} Length inches (cm) | Weight oz (gm) |
|--|-----------------------------------|-----------------------|-----------------|--------------------------|------------------------|----------------------------------|--|--|----------------------|
| 2.4 Amp: M-2218-2.4S | 90 (64) | 2.4 | 4 | 0.95 | 2.4 | 3.9 (2.7) | 0.00255 (0.18) | 1.77 (4.5) | 16.9 (480) |
| 2.4 Amp: M-2222-2.4S | 144 (102) | 2.4 | 4 | 1.2 | 4.0 | 5.6 (3.9) | 0.00368 (0.26) | 2.13 (5.4) | 21.2 (600) |
| 2.4 Amp: M-2231-2.4S | 239 (169) | 2.4 | 4 | 1.5 | 5.4 | 9.7 (6.9) | 0.0065 (0.46) | 2.99 (7.6) | 35.3 (1000) |
| 3.0 Amp: M-2218-3.0S (D) | 90 (64) | 3.0 | 4 | 0.65 | 1.5 | 3.9 (2.7) | 0.00255 (0.18) | 1.77 (4.5) | 16.9 (480) |
| 3.0 Amp: M-2222-3.0S (D) | 144 (102) | 3.0 | 4 | 0.85 | 2.6 | 5.6 (3.9) | 0.00368 (0.26) | 2.13 (5.4) | 21.2 (600) |
| 3.0 Amp: M-2231-3.0S (D) | 239 (169) | 3.0 | 4 | 0.95 | 3.36 | 9.7 (6.9) | 0.0065 (0.46) | 2.99 (7.6) | 35.3 (1000) |
| 6.0 Amp: M-2218-6.0S (D) | 100 (71) | 6.0 | 4 | 0.16 | 0.47 | 2.0 (1.4) | 0.0017 (0.12) | 1.75 (4.45) | 16.6 (470) |
| 6.0 Amp: M-2222-6.0S (D) | 150 (106) | 6.0 | 4 | 0.19 | 0.73 | 3.0 (2.1) | 0.00397 (0.28) | 2.2 (5.6) | 24.7 (700) |
| 6.0 Amp: M-2231-6.0S (D) | 257 (181) | 6.0 | 4 | 0.23 | 1.04 | 5.0 (3.5) | 0.0068 (0.48) | 3.09 (7.85) | 35.3 (1000) |

TORQUE SPEED CURVES

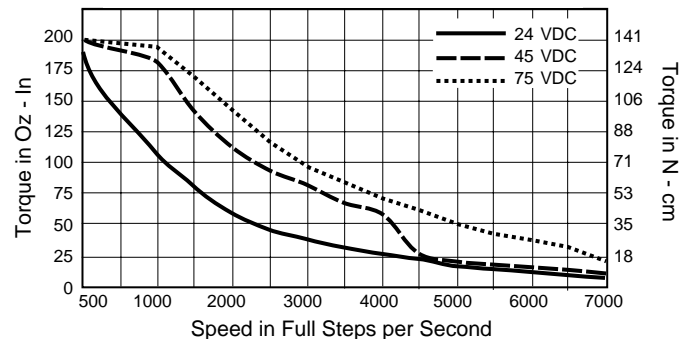
M-2218-2.4

2.4 Amps RMS



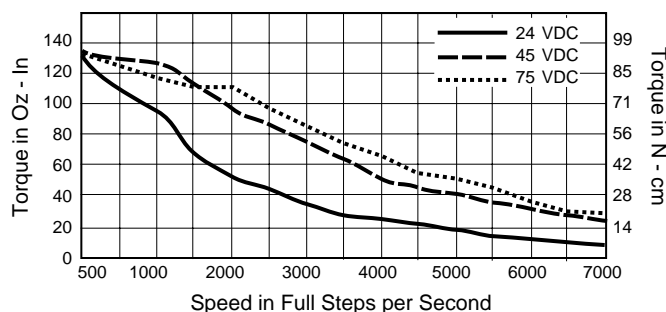
M-2231-2.4

2.4 Amps RMS



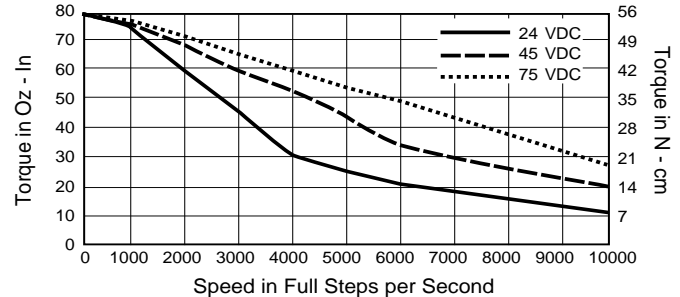
M-2222-2.4

2.4 Amps RMS



M-2218-3.0

3.0 Amps RMS

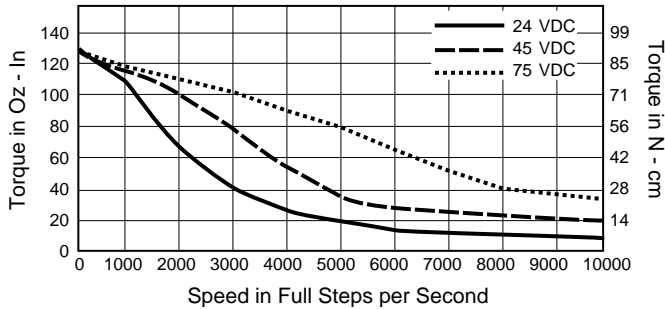


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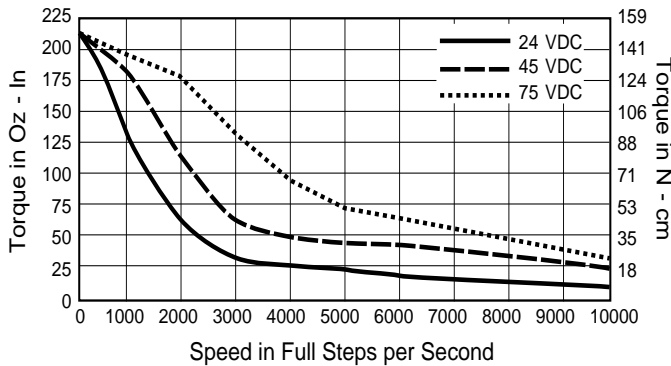
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TORQUE SPEED CURVES *continued*

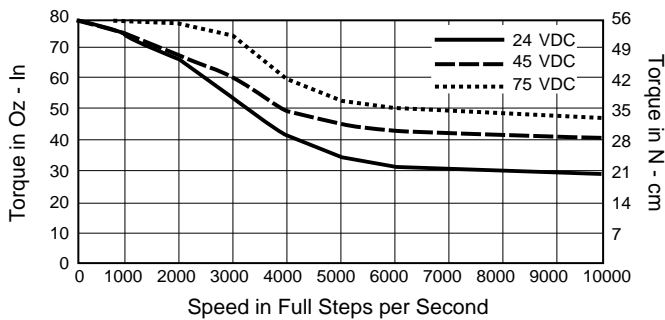
M-2222-3.0 3.0 Amps RMS



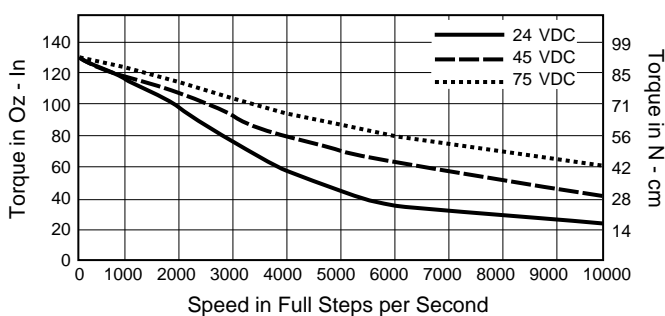
M-2231-3.0 3.0 Amps RMS



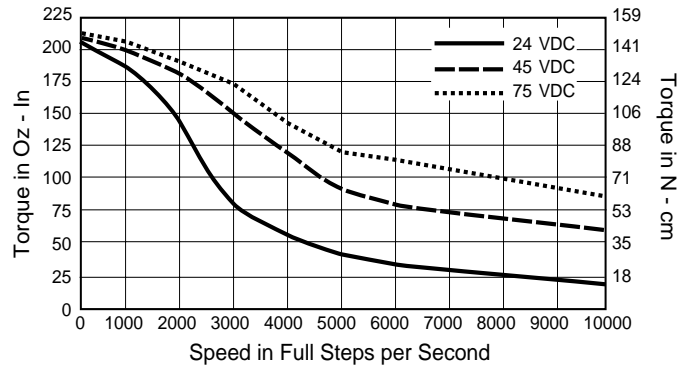
M-2218-6.0 6.0 Amps RMS



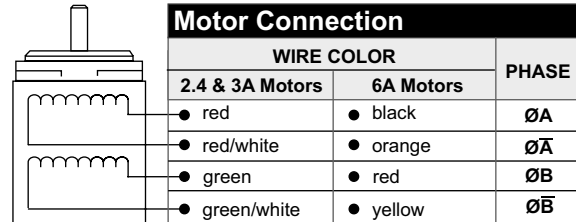
M-2222-6.0 6.0 Amps RMS



M-2231-6.0 6.0 Amps RMS



CONNECTION



MECHANICAL

Dimensions in Inches (mm)

