



Short Form Selection Guide Brush Commutated DC Motors

| | Pittman P/N | Cont. Torque (oz-in) | No Load Speed (rpm) | Peak Torque (oz-in) | Kt (oz-in/A) | Kv (V/krpm) | Rated Voltage | Encoder | Cont. Amps | Peak Amps | Volts |
|---|-------------|----------------------|---------------------|---------------------|--------------|-------------|---------------|-------------|--------------|--------------|-------|
| 8000 LO-COG Brush Commutated DC Motors | 8322S001 | 1.58 | 7847 | 7.4 | 1.94 | 1.43 | 12 | 500 CPR | 0.81 | 3.81 | 11.22 |
| | 8322S002 | 1.58 | 7847 | 7.4 | 3.88 | 2.87 | 24 | NONE | 0.41 | 1.91 | 22.52 |
| | 8322S003 | 1.58 | 7847 | 7.4 | 3.88 | 2.87 | 24 | 500 CPR | 0.41 | 1.91 | 22.52 |
| | 8322S008 | 1.58 | 7847 | 7.4 | 1.94 | 1.43 | 12 | NONE | 0.81 | 3.81 | 11.22 |
| | 8324S004 | 2.62 | 10158 | 16.8 | 1.54 | 1.14 | 12 | NONE | 1.70 | 10.91 | 11.58 |
| | 8324S005 | 2.62 | 10158 | 16.8 | 1.54 | 1.14 | 12 | 500 CPR | 1.70 | 10.91 | 11.58 |
| | 8324S006 | 2.62 | 10158 | 16.8 | 3.09 | 2.29 | 24 | NONE | 0.85 | 5.44 | 23.26 |
| 9000 LO-COG Brush Commutated DC Motors | 9232S001 | 2.3 | 7015 | 13.8 | 2.2 | 1.63 | 12 | 500 CPR | 1.05 | 6.27 | 11.43 |
| | 9232S002 | 2.3 | 7015 | 13.8 | 4.4 | 3.25 | 24 | NONE | 0.52 | 3.14 | 22.80 |
| | 9232S003 | 2.3 | 7015 | 13.8 | 4.4 | 3.25 | 24 | 500 CPR | 0.52 | 3.14 | 22.80 |
| | 9233S012 | 4.7 | 5993 | 31.6 | 2.67 | 1.98 | 12 | NONE | 1.76 | 11.84 | 11.87 |
| | 9233S013 | 4.7 | 5993 | 31.6 | 5.28 | 3.9 | 24 | NONE | 0.89 | 5.98 | 23.37 |
| | 9234S004 | 6.1 | 6151 | 41.3 | 2.58 | 1.91 | 12 | NONE | 2.36 | 16.01 | 11.75 |
| | 9234S005 | 6.1 | 6151 | 41.3 | 2.58 | 1.91 | 12 | 500 CPR | 2.36 | 16.01 | 11.75 |
| | 9234S006 | 6.1 | 6151 | 41.3 | 5.17 | 3.82 | 24 | NONE | 1.18 | 7.99 | 23.50 |
| | 9234S007 | 6.1 | 6151 | 41.3 | 5.17 | 3.82 | 24 | 500 CPR | 1.18 | 7.99 | 23.50 |
| | 9236S008 | 9.5 | 4913 | 61.8 | 6.49 | 4.8 | 24 | NONE | 1.46 | 9.52 | 23.58 |
| | 9236S009 | 9.5 | 4913 | 61.8 | 6.49 | 4.8 | 24 | 500 CPR | 1.46 | 9.52 | 23.58 |
| | 9237S010 | 11.5 | 5331 | 77 | 6 | 4.44 | 24 | NONE | 1.92 | 12.83 | 23.67 |
| 9237S011 | 11.5 | 5331 | 77 | 6 | 4.44 | 24 | 500 CPR | 1.92 | 12.83 | 23.67 | |
| 14000 LO-COG Brush Commutated DC Motors | 14201S001 | 10 | 4230 | 62.8 | 3.72 | 2.75 | 12 | 500 CPR | 2.69 | 16.88 | 11.63 |
| | 14201S002 | 10 | 4230 | 62.8 | 7.44 | 5.5 | 24 | NONE | 1.34 | 8.44 | 23.27 |
| | 14201S003 | 10 | 4230 | 62.8 | 7.44 | 5.5 | 24 | 500 CPR | 1.34 | 8.44 | 23.27 |
| | 14203S009 | 21 | 3456 | 159 | 9.26 | 6.85 | 24 | NONE | 2.27 | 17.17 | 23.67 |
| | 14203S010 | 21 | 3456 | 159 | 4.63 | 3.42 | 12 | NONE | 4.54 | 34.34 | 11.82 |
| | 14204S004 | 26 | 3702 | 204 | 4.33 | 3.21 | 12 | 500 CPR | 6.00 | 47.11 | 11.88 |
| | 14204S005 | 26 | 3702 | 204 | 8.67 | 6.41 | 24 | NONE | 3.00 | 23.53 | 23.73 |
| | 14204S006 | 26 | 3702 | 204 | 8.67 | 6.41 | 24 | 500 CPR | 3.00 | 23.53 | 23.73 |
| | 14206S011 | 36.5 | 3216 | 284 | 10 | 7.39 | 24 | NONE | 3.65 | 28.40 | 23.77 |
| | 14207S007 | 50 | 3211 | 410 | 10 | 7.39 | 24 | NONE | 5.00 | 41.00 | 23.73 |
| 14207S008 | 50 | 3211 | 410 | 10 | 7.39 | 24 | 500 CPR | 5.00 | 41.00 | 23.73 | |

Brush Commutated DC Gearmotors

| Pittman P/N | Ratio X:1 | Continuous Torque (oz-in) | No-Load Speed (rpm) | Peak Torque (oz-in) | Kt (oz-in/A) | Kv (v/krpm) | Rated Voltage | Encoder | Cont. Amps | Peak Amps | Volts |
|-------------|-----------|---------------------------|---------------------|---------------------|--------------|-------------|---------------|---------|-------------|--------------|-------|
| GM8712-11 | 6.3 | 6 | 1227 | 26 | 3.06 | 2.27 | 19.1 | NONE | 0.31 | 1.35 | 17.55 |
| GM8712-21 | 19.5 | 6.18 | 396 | 72 | 3.06 | 2.27 | 19.1 | NONE | 0.10 | 1.21 | 17.53 |
| GM8712-31 | 60.5 | 46 | 128 | 201 | 3.06 | 2.27 | 19.1 | NONE | 0.25 | 1.09 | 17.58 |
| GM8712-41 | 187 | 100 | 41 | 557 | 3.06 | 2.27 | 19.1 | NONE | 0.17 | 0.97 | 17.40 |
| GM8712S030 | 187 | 100 | 41 | 557 | 3.87 | 2.86 | 24 | NONE | 0.14 | 0.77 | 21.93 |
| GM8724S008 | 6.3 | 14.5 | 720 | 42 | 3.09 | 2.29 | 12 | NONE | 0.74 | 2.16 | 10.39 |
| GM8724S009 | 6.3 | 14.5 | 720 | 42 | 3.09 | 2.29 | 12 | 500 CPR | 0.74 | 2.16 | 10.39 |
| GM8724S010 | 6.3 | 14.5 | 720 | 42 | 6.18 | 4.57 | 24 | NONE | 0.37 | 1.08 | 20.73 |
| GM8724S011 | 6.3 | 14.5 | 720 | 42 | 6.18 | 4.57 | 24 | 500 CPR | 0.37 | 1.08 | 20.73 |
| GM8724S012 | 9.9 | 21 | 455 | 60 | 3.09 | 2.29 | 12 | NONE | 0.69 | 1.96 | 10.32 |
| GM8724S013 | 9.9 | 21 | 455 | 60 | 6.18 | 4.57 | 24 | NONE | 0.34 | 0.98 | 20.59 |
| GM8724S014 | 19.5 | 41.5 | 230 | 117 | 3.09 | 2.29 | 12 | NONE | 0.69 | 1.94 | 10.27 |
| GM8724S015 | 19.5 | 41.5 | 230 | 117 | 3.09 | 2.29 | 12 | 500 CPR | 0.69 | 1.94 | 10.27 |
| GM8724S016 | 19.5 | 41.5 | 230 | 117 | 6.18 | 4.57 | 24 | NONE | 0.34 | 0.97 | 20.50 |
| GM8724S017 | 19.5 | 41.5 | 230 | 117 | 6.18 | 4.57 | 24 | 500 CPR | 0.34 | 0.97 | 20.50 |
| GM8724S018 | 30.9 | 61 | 146 | 168 | 3.09 | 2.29 | 12 | NONE | 0.64 | 1.76 | 10.33 |
| GM8724S019 | 30.9 | 61 | 146 | 168 | 6.18 | 4.57 | 24 | NONE | 0.32 | 0.88 | 20.62 |
| GM8724S020 | 60.5 | 113 | 75 | 328 | 3.09 | 2.29 | 12 | NONE | 0.60 | 1.75 | 10.39 |
| GM8724S021 | 60.5 | 113 | 75 | 328 | 3.09 | 2.29 | 12 | 500 CPR | 0.60 | 1.75 | 10.39 |
| GM8724S022 | 60.5 | 113 | 75 | 328 | 6.18 | 4.57 | 24 | NONE | 0.30 | 0.88 | 20.74 |
| GM8724S023 | 60.5 | 113 | 75 | 328 | 6.18 | 4.57 | 24 | 500 CPR | 0.30 | 0.88 | 20.74 |
| GM8724S024 | 95.9 | 173 | 47 | 466 | 3.09 | 2.29 | 12 | NONE | 0.58 | 1.57 | 10.32 |
| GM8724S025 | 95.9 | 173 | 47 | 466 | 6.18 | 4.57 | 24 | NONE | 0.29 | 0.79 | 20.60 |
| GM8724S026 | 187.7 | 175 | 24 | 911 | 3.09 | 2.29 | 12 | NONE | 0.30 | 1.57 | 10.32 |
| GM8724S027 | 187.7 | 175 | 24 | 911 | 3.09 | 2.29 | 12 | 500 CPR | 0.30 | 1.57 | 10.32 |
| GM8724S028 | 187.7 | 175 | 24 | 911 | 6.18 | 4.57 | 24 | NONE | 0.15 | 0.79 | 20.59 |
| GM8724S029 | 187.7 | 175 | 24 | 911 | 6.18 | 4.57 | 24 | 500 CPR | 0.15 | 0.79 | 20.59 |
| GM9234S016 | 11.5 | 61 | 424 | 304 | 3.29 | 2.43 | 12 | NONE | 1.61 | 8.03 | 11.85 |
| GM9234S017 | 11.5 | 61 | 424 | 304 | 6.5 | 4.81 | 24 | NONE | 0.82 | 4.07 | 23.45 |
| GM9234S022 | 38.3 | 187 | 127 | 911 | 3.29 | 2.43 | 12 | NONE | 1.48 | 7.23 | 11.82 |
| GM9234S023 | 38.3 | 187 | 127 | 911 | 6.5 | 4.81 | 24 | NONE | 0.75 | 3.66 | 23.40 |
| GM9234S028 | 127.8 | 500 | 36 | 2747 | 3.29 | 2.43 | 12 | NONE | 1.19 | 6.53 | 11.18 |
| GM9234S029 | 127.8 | 500 | 36 | 2747 | 6.5 | 4.81 | 24 | NONE | 0.60 | 3.31 | 22.13 |
| GM9234S030 | 218.4 | 500 | 21 | 4199 | 3.29 | 2.43 | 12 | NONE | 0.70 | 5.84 | 11.14 |
| GM9234S031 | 218.4 | 500 | 21 | 4199 | 3.29 | 2.43 | 12 | 500 CPR | 0.70 | 5.84 | 11.14 |
| GM9234S032 | 218.4 | 500 | 21 | 4199 | 6.5 | 4.81 | 24 | NONE | 0.35 | 2.96 | 22.06 |
| GM9234S033 | 218.4 | 500 | 21 | 4199 | 6.5 | 4.81 | 24 | 500 CPR | 0.35 | 2.96 | 22.06 |
| GM9236S012 | 5.9 | 48 | 790 | 286 | 3.25 | 2.4 | 12 | NONE | 2.50 | 14.92 | 11.19 |
| GM9236S013 | 5.9 | 48 | 790 | 286 | 3.25 | 2.4 | 12 | 500 CPR | 2.50 | 14.92 | 11.19 |
| GM9236S014 | 5.9 | 48 | 790 | 286 | 6.49 | 4.8 | 24 | NONE | 1.25 | 7.47 | 22.37 |
| GM9236S015 | 5.9 | 48 | 790 | 286 | 6.49 | 4.8 | 24 | 500 CPR | 1.25 | 7.47 | 22.37 |

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|------------|------|-----|-----|------|------|-----|----|---------|-------------|--------------|-------|
| GM9236S018 | 19.7 | 153 | 236 | 860 | 3.25 | 2.4 | 12 | NONE | 2.39 | 13.43 | 11.16 |
| GM9236S019 | 19.7 | 153 | 236 | 860 | 3.25 | 2.4 | 12 | 500 CPR | 2.39 | 13.43 | 11.16 |
| GM9236S020 | 19.7 | 153 | 236 | 860 | 6.49 | 4.8 | 24 | NONE | 1.20 | 6.73 | 22.32 |
| GM9236S021 | 19.7 | 153 | 236 | 860 | 6.49 | 4.8 | 24 | 500 CPR | 1.20 | 6.73 | 22.32 |
| GM9236S024 | 65.5 | 480 | 71 | 2585 | 3.25 | 2.4 | 12 | NONE | 2.25 | 12.14 | 11.16 |

| Pittman P/N | Ratio X:1 | Cont. Torque (oz-in) | No-Load Speed | Peak Torque (oz-in) | Kt (oz-in/A) | Kv (v/krpm) | Rated Voltage | Encoder | Cont. Amps | Peak Amps | Volts |
|-------------|-----------|----------------------|---------------|---------------------|--------------|-------------|---------------|---------|-------------|--------------|-------|
| GM9236S025 | 65.5 | 480 | 71 | 2585 | 3.25 | 2.4 | 12 | 500 CPR | 2.25 | 12.14 | 11.16 |
| GM9236S026 | 65.5 | 480 | 71 | 2585 | 6.49 | 4.8 | 24 | NONE | 1.13 | 6.08 | 22.32 |
| GM9236S027 | 65.5 | 480 | 71 | 2585 | 6.49 | 4.8 | 24 | 500 CPR | 1.13 | 6.08 | 22.32 |
| GM9413-1 | 5.9 | 15 | 474 | 36 | 5.16 | 4.14 | 12 | NONE | 0.49 | 1.18 | 11.58 |
| GM9413-2 | 19.7 | 45 | 142 | 109 | 5.6 | 4.14 | 12 | NONE | 0.41 | 0.99 | 11.58 |
| GM9413-3 | 65.5 | 136 | 43 | 326 | 5.6 | 4.14 | 12 | NONE | 0.37 | 0.89 | 11.66 |
| GM9413-4 | 218.4 | 175 | 13 | 973 | 5.6 | 4.14 | 12 | NONE | 0.14 | 0.80 | 11.75 |
| GM9413-5 | 728 | 175 | 4 | 2913 | 5.6 | 4.14 | 12 | NONE | 0.04 | 0.71 | 12.06 |
| GM9634S001 | 24 | 95 | 256 | 634 | 5.17 | 3.82 | 24 | 500 CPR | 0.77 | 5.11 | 23.47 |
| GM9634S002 | 75 | 265 | 82 | 1580 | 5.17 | 3.82 | 24 | NONE | 0.68 | 4.07 | 23.49 |
| GM9634S003 | 144 | 500 | 43 | 3033 | 5.17 | 3.82 | 24 | NONE | 0.67 | 4.07 | 23.65 |
| GM14604S001 | 24 | 420 | 154 | 3133 | 8.67 | 6.41 | 24 | 500 CPR | 2.02 | 15.06 | 23.69 |
| GM14604S002 | 75 | 1125 | 49 | 7803 | 8.67 | 6.41 | 24 | NONE | 1.73 | 12.00 | 23.56 |
| GM14902S017 | 65.5 | 500 | 59 | 4625 | 3.9 | 2.88 | 12 | NONE | 1.96 | 18.11 | 11.13 |
| GM14902S018 | 65.5 | 500 | 59 | 4625 | 3.9 | 2.88 | 12 | 500 CPR | 1.96 | 18.11 | 11.13 |
| GM14902S019 | 65.5 | 500 | 59 | 4625 | 7.8 | 5.77 | 24 | NONE | 0.98 | 9.05 | 22.30 |
| GM14902S020 | 65.5 | 500 | 59 | 4625 | 7.8 | 5.77 | 24 | 500 CPR | 0.98 | 9.05 | 22.30 |
| GM14904S009 | 5.9 | 124 | 597 | 975 | 4.33 | 3.21 | 12 | NONE | 4.85 | 38.16 | 11.31 |
| GM14904S010 | 5.9 | 124 | 597 | 975 | 4.33 | 3.21 | 12 | 500 CPR | 4.85 | 38.16 | 11.31 |
| GM14904S011 | 5.9 | 124 | 597 | 975 | 8.67 | 6.41 | 24 | NONE | 2.42 | 19.06 | 22.58 |
| GM14904S012 | 5.9 | 124 | 597 | 975 | 8.67 | 6.41 | 24 | 500 CPR | 2.42 | 19.06 | 22.58 |
| GM14904S013 | 19.7 | 374 | 179 | 2934 | 4.33 | 3.21 | 12 | NONE | 4.38 | 34.40 | 11.32 |
| GM14904S014 | 19.7 | 374 | 179 | 2934 | 4.33 | 3.21 | 12 | 500 CPR | 4.38 | 34.40 | 11.32 |
| GM14904S015 | 19.7 | 374 | 179 | 2934 | 8.67 | 6.41 | 24 | NONE | 2.19 | 17.18 | 22.60 |
| GM14904S016 | 19.7 | 374 | 179 | 2934 | 8.67 | 6.41 | 24 | 500 CPR | 2.19 | 17.18 | 22.60 |

Brushless DC Servo Motors

| | Pittman P/N | Continuous Torque (oz-in) | No Load Speed (rpm) | Peak Torque (oz-in) | Kt (oz-in/A) | Kv (V/krpm) | Rated Voltage | Encoder | Cont. Amps | Peak Amps | Volts |
|------------------------------------|-------------|---------------------------|---------------------|---------------------|--------------|-------------|---------------|-------------|--------------|--------------|-------|
| ELCOM SL Brushless DC Motors | 3441S002-R2 | 4.11 | 7150 | 13.3 | 4.47 | 3.31 | 24 | 500 CPR | 0.92 | 2.98 | 23.67 |
| | 3442S004-R2 | 5.78 | 7400 | 26.2 | 3.44 | 2.54 | 19.1 | 500 CPR | 1.68 | 7.62 | 18.80 |
| | 3442S004-R2 | 5.78 | 7400 | 26.2 | 6.88 | 5.09 | 38.2 | 500 CPR | 0.84 | 3.81 | 37.67 |
| | 4441S009 | 11.9 | 5780 | 71.2 | 3.53 | 2.61 | 15.1 | 500 CPR | 3.37 | 20.17 | 15.09 |
| | 4441S010 | 11.9 | 5780 | 71.2 | 7.05 | 5.21 | 30.3 | 500 CPR | 1.69 | 10.10 | 30.11 |
| | 4442S011 | 14.3 | 5925 | 100.2 | 4.33 | 3.2 | 19.1 | 500 CPR | 3.30 | 23.14 | 18.96 |
| | 4442S012 | 14.3 | 5925 | 100.2 | 8.67 | 6.41 | 38.2 | 500 CPR | 1.65 | 11.56 | 37.98 |
| | 4443S013 | 19.1 | 5860 | 149 | 5.55 | 4.1 | 24 | 500 CPR | 3.44 | 26.85 | 24.03 |
| | 4443S014 | 19.1 | 5860 | 149 | 11.1 | 8.21 | 48 | 500 CPR | 1.72 | 13.42 | 48.11 |
| | 5441S005 | 25 | 5025 | 171 | 2.96 | 2.19 | 12 | 500 CPR | 8.45 | 57.77 | 11.00 |
| 5441S006 | 25 | 5025 | 171 | 6.46 | 4.77 | 24 | 500 CPR | 3.87 | 26.47 | 23.97 | |



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