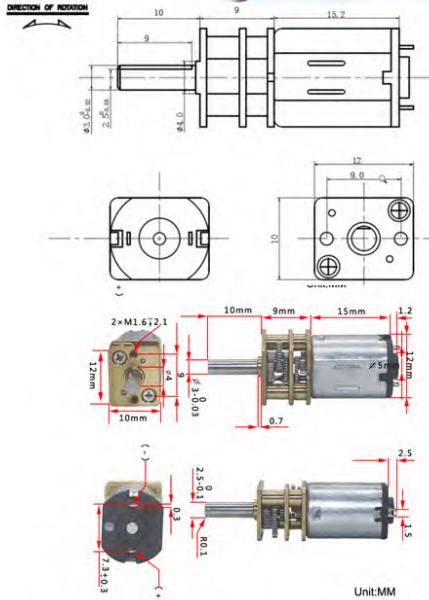


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N20 DC Gear Motor

Model: JGA12-N20

DC3V7500 Test Parameter:

| Reduction Ratio | 5 | 10 | 20 | 30 | 50 | 100 | 150 | 210 | 250 | 298 | 380 | 1000 |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| No load Current (mA) | ≤20 | ≤20 | ≤20 | ≤20 | ≤20 | ≤20 | ≤20 | ≤20 | ≤20 | ≤20 | ≤20 | ≤20 |
| No load RPM | 1500 | 750 | 750 | 250 | 150 | 75 | 50 | 35 | 30 | 25 | 20 | 7.5 |
| Load torque g.cm | 10 | 22 | 42 | 66 | 108 | 222 | 330 | 462 | 540 | 660 | 840 | 2220 |
| Load RPM | 1150 | 580 | 570 | 200 | 110 | 60 | 38 | 28 | 23 | 20 | 14 | 5.5 |
| Load Current (mA) | ≤100 | ≤100 | ≤100 | ≤100 | ≤100 | ≤100 | ≤100 | ≤100 | ≤100 | ≤100 | ≤100 | ≤100 |
| Max Torque g.cm | 18 | 36 | 70 | 110 | 180 | 370 | 550 | 770 | 900 | 1100 | 1400 | 3700 |
| Stall Current (mA) | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 |

DC6V06150 Test Parameter:

| Reduction Ratio | 5 | 10 | 20 | 30 | 50 | 100 | 150 | 210 | 250 | 298 | 380 | 1000 |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|---------------|
| No load Current (mA) | ≤30 | ≤30 | ≤30 | ≤30 | ≤30 | ≤30 | ≤30 | ≤30 | ≤30 | ≤30 | ≤30 | ≤30 |
| No load RPM | 3000 | 1500 | 750 | 500 | 300 | 150 | 100 | 71 | 60 | 50 | 39 | 15 |
| Load torque g.cm | 22 | 44.0 | 88 | 132 | 221 | 440 | 662 | 924 | 1103 | 1300 | 1670 | 3000 |
| Load RPM | 2308 | 1154 | 577 | 384 | 231 | 115 | 77 | 55 | 46 | 39 | 30 | 11.5 |
| Load Current (mA) | ≤150 | ≤150 | ≤150 | ≤150 | ≤150 | ≤150 | ≤150 | ≤150 | ≤150 | ≤150 | ≤150 | ≤150 |
| Max Torque g.cm | 37 | 73 | 147 | 220 | 368 | 738 | 1103 | 1544 | 1838 | 2200 | | |
| Stall Current (mA) | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | Forbid Locked |

DC12V12300 Test Parameter:

| Reduction Ratio | 5 | 10 | 20 | 30 | 50 | 100 | 150 | 210 | 250 | 298 | 380 | 1000 |
|----------------------|------|------|------|------|-----|-------|------|------|------|------|------|------|
| No load Current (mA) | ≤50 | ≤50 | ≤50 | ≤50 | ≤50 | ≤50 | ≤50 | ≤50 | ≤50 | ≤50 | ≤50 | ≤50 |
| No load RPM | 6000 | 3000 | 1500 | 1000 | 600 | 300 | 200 | 143 | 120 | 101 | 79 | 30.0 |
| Load torque g.cm | 33 | 66 | 132 | 180 | 330 | 660.0 | 990 | 1386 | 1650 | 1960 | 2500 | 3000 |
| Load RPM | 4615 | 2308 | 1154 | 770 | 462 | 231 | 154 | 110 | 92 | 77 | 61 | 23 |
| Load Current (mA) | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 |
| Max Torque g.cm | 55 | 110 | 220 | 300 | 550 | 1100 | 1650 | 2310 | 2750 | | | |
| Stall Current (mA) | 550 | 550 | 550 | 550 | 550 | 550 | 550 | 550 | 550 | 550 | 550 | 550 |



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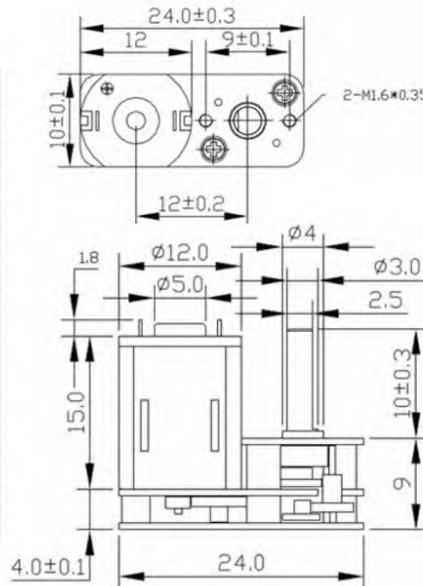
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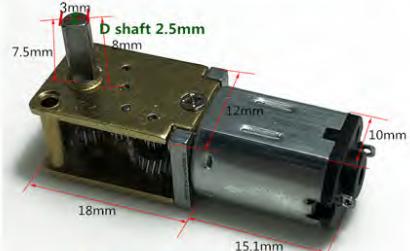
Model: 1024-N20

| Model | Voltage | | No load | | On Load | | | Stall | | Speed reducer | | |
|----------|----------|-------|---------|---------|---------|---------|--------|--------|--------|---------------|-------|------|
| | Workable | Rated | Speed | Current | Speed | Current | Torque | Output | Torque | Current | Ratio | Size |
| | Range | V | rpm | mA | rpm | mA | Kg.cm | w | kg.cm | mA | 1:00 | g |
| 1024-n20 | 3-12v | 6v | 576 | 60 | 410 | 150 | 0.1 | 0.5 | 0.5 | 600 | 26 | 19 |
| 1024-n20 | 3-12v | 6v | 440 | 60 | 308 | 150 | 0.2 | 0.5 | 0.8 | 600 | 34 | 19 |
| 1024-n20 | 3-12v | 6v | 300 | 60 | 214 | 150 | 0.45 | 0.5 | 1.5 | 600 | 50 | 19 |
| 1024-n20 | 3-12v | 6v | 136 | 60 | 97 | 150 | 0.95 | 0.5 | 2.5 | 600 | 110 | 19 |
| 1024-n20 | 3-12v | 6v | 90 | 60 | 64 | 150 | 1.2 | 0.5 | 3 | 600 | 168 | 19 |
| 1024-n20 | 3-12v | 6v | 70 | 60 | 50 | 150 | 1.5 | 0.5 | 4 | 600 | 210 | 19 |
| 1024-n20 | 3-12v | 6v | 60 | 60 | 43 | 150 | 2 | 0.5 | 5 | 600 | 250 | 19 |
| 1024-n20 | 3-12v | 6v | 42 | 60 | 30 | 150 | 2 | 0.5 | | | 350 | 19 |
| 1024-n20 | 3-12v | 6v | 30 | 60 | 21 | 150 | 2 | 0.5 | | | 500 | 19 |
| 1024-n20 | 3-12v | 6v | 15 | 60 | 11 | 150 | 2 | 0.5 | | | 1000 | 23 |

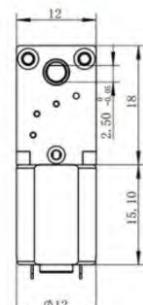
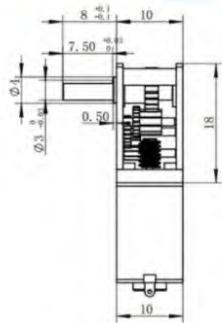
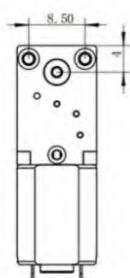




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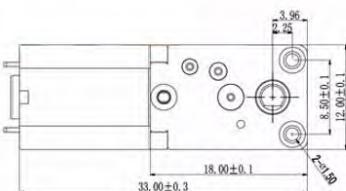
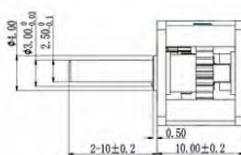
Model:JGY-N20



| Model | Voltage | | No load | | On Load | | | | Stall | | Reducer | |
|---------|----------|-------|---------|---------|---------|---------|--------|--------|--------|---------|---------|-------|
| | Workable | Rated | Speed | Current | Speed | Current | Torque | Output | Torque | Current | Ratio | Speed |
| | Range | V | rpm | mA | rpm | mA | gf.cm | w | gf.cm | ma | 1:100 | rpm |
| JGY-N20 | 3V-12V | 6 | 381 | 30 | 333 | 85 | 71 | 1.02 | 235.2 | 700 | 42 | 16000 |
| JGY-N20 | 3V-12V | 6 | 136 | 30 | 119 | 85 | 142 | 1.02 | 472 | 700 | 118 | 16000 |
| JGY-N20 | 3V-12V | 6 | 68 | 30 | 59 | 85 | 283 | 1.02 | 944 | 700 | 236 | 16000 |
| JGY-N20 | 3V-12V | 6 | 53 | 30 | 46 | 85 | 362 | 1.02 | 1208 | 700 | 302 | 16000 |
| JGY-N20 | 3V-12V | 6 | 27 | 30 | 23 | 85 | 579 | 1.02 | 1929.6 | 700 | 603 | 16000 |
| JGY-N20 | 3V-12V | 6 | 16 | 30 | 14 | 85 | 975 | 1.02 | 3251.2 | 700 | 1016 | 16000 |



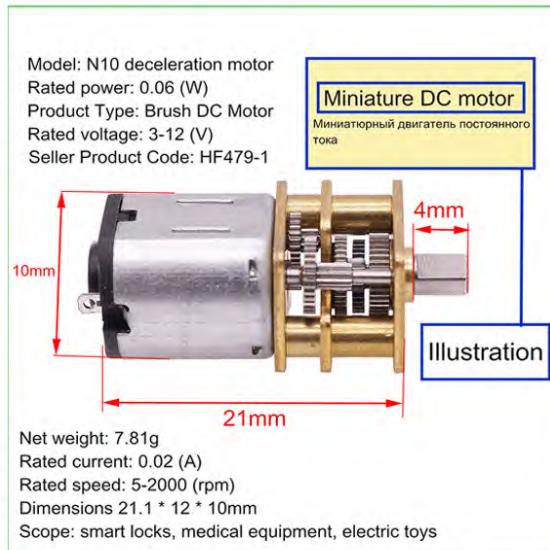
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Model:JGY-N20S

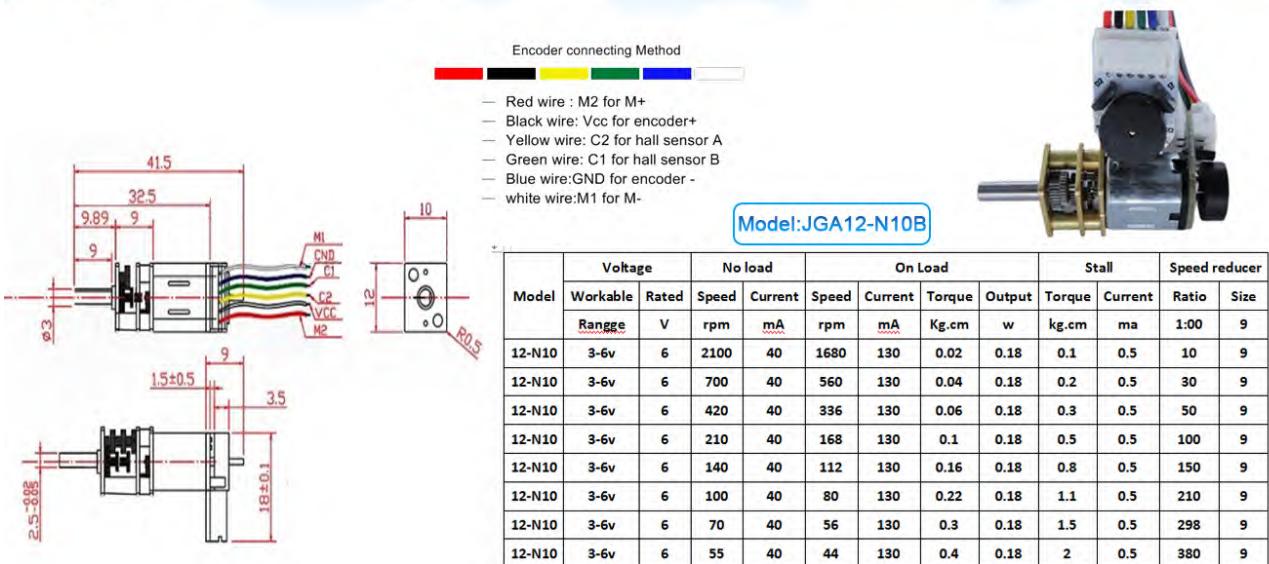


| Model | Ratio | Rated | No load | | On Load | | | | Stall | |
|-------|-------|--------|---------|---------|---------|---------|--------|--------|--------|---------|
| | | | Speed | Current | Speed | Current | Torque | Output | Torque | Current |
| | 1:100 | volt.v | rpm | mA | rpm | mA | Kg.cm | w | kg.cm | ma |
| 12600 | 42 | 12 | 381 | 30 | 333 | 85 | 0.071 | 1 | 0.235 | 700 |
| | 118 | 12 | 136 | 30 | 119 | 85 | 0.142 | 1 | 0.472 | 700 |
| | 236 | 12 | 68 | 30 | 59 | 85 | 0.283 | 1 | 0.9441 | 700 |
| | 302 | 12 | 53 | 30 | 46 | 85 | 0.362 | 1 | 1.208 | 700 |
| | 603 | 12 | 27 | 30 | 23 | 85 | 0.579 | 1 | 1.9296 | 700 |



Model: JGA12-N10

| Model | Rated | No load | | Load Torque | | | | Stall | | Ratio |
|--------|-------|------------------------|---------------|--------------|---------------|----------------|-------------|-----------------|---------------|-------|
| | | Speed vort.v rpm | Current mA | Speed rpm | Current mA | Torque g.cm | Output w | Torque kg.cm | Current ma | |
| 12-N10 | 6 | 2100 | 40 | 1680 | 130 | 0.02 | 0.18 | 0.1 | 0.5 | 10 |
| 12-N10 | 6 | 700 | 40 | 560 | 130 | 0.04 | 0.18 | 0.2 | 0.5 | 30 |
| 12-N10 | 6 | 420 | 40 | 336 | 130 | 0.06 | 0.18 | 0.3 | 0.5 | 50 |
| 12-N10 | 6 | 210 | 40 | 168 | 130 | 0.1 | 0.18 | 0.5 | 0.5 | 100 |
| 12-N10 | 6 | 140 | 40 | 112 | 130 | 0.16 | 0.18 | 0.8 | 0.5 | 150 |
| 12-N10 | 6 | 100 | 40 | 80 | 130 | 0.22 | 0.18 | 1.1 | 0.5 | 210 |
| 12-N10 | 6 | 70 | 40 | 56 | 130 | 0.3 | 0.18 | 1.5 | 0.5 | 298 |
| 12-N10 | 6 | 55 | 40 | 44 | 130 | 0.4 | 0.18 | 2 | 0.5 | 380 |





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Model:N20-1000

| Reduction ratio | Rated Volt | No Load | | AT Load | | STALL | | | |
|-----------------|------------|---------|-----------|------------|--------------|-----------|-----------|---------------|-----------|
| | | V | SPEED RPM | CURRENT mA | Torque KG.cm | SPEED RPM | Current A | TOQ.CCM KG.CM | CURRENT A |
| 1000 | 6 | 7.5 | 20 | 2.2 | 5.5 | 100 | 3.7 | 0.21 | |
| 1000 | 12 | 15 | 30 | 3 | 11.5 | 150 | 4 | 0.3 | |
| 1000 | 24 | 30 | 50 | 3 | 23 | 270 | 4 | 0.55 | |

