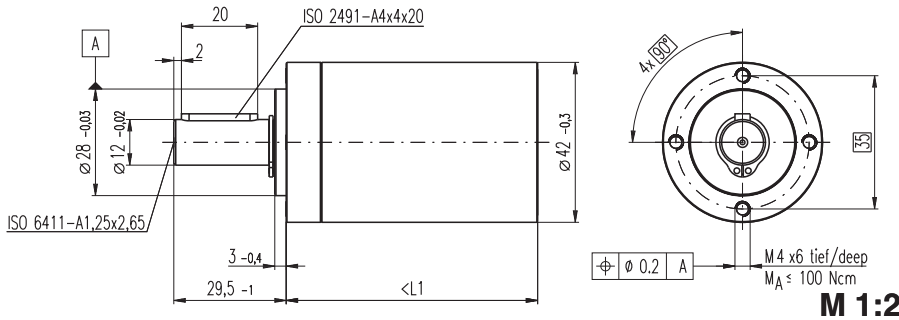


Planetary Gearhead GP 42 C $\varnothing 42$ mm, 3 - 15 Nm

Ceramic Version



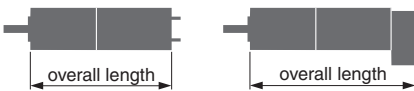
Technical Data

| | |
|---------------------------------------|---------------------------------|
| Planetary Gearhead | straight teeth |
| Output shaft | stainless steel |
| Bearing at output | preloaded ball bearings |
| Radial play, 12 mm from flange | max. 0.06 mm |
| Axial play at axial load | < 5 N 0 mm > 5 N max. 0.3 mm |
| Max. permissible axial load | 150 N |
| Max. permissible force for press fits | 300 N |
| Sense of rotation, drive to output | = |
| Recommended input speed | < 8000 rpm |
| Recommended temperature range | -20 ... +100°C |
| Extended area as option | -35 ... +100°C |
| Number of stages | 1 2 3 4 |
| Max. radial load, 12 mm from flange | 120 N 150 N 150 N 150 N |

- Stock program
- Standard program
- Special program (on request)

Order Number

| | 203113 | 203115 | 203119 | 203120 | 203124 | 203129 | 203128 | 203133 | 203137 | 203141 |
|---|---------------|---------------|--------|---------------|---------------|---------|---------------|---------------|---------------|---------------|
| Gearhead Data | | | | | | | | | | |
| 1 Reduction | 3.5 : 1 | 12 : 1 | 26 : 1 | 43 : 1 | 81 : 1 | 156 : 1 | 150 : 1 | 285 : 1 | 441 : 1 | 756 : 1 |
| 2 Reduction absolute | 7/2 | 49/4 | 26 | 343/8 | 2197/27 | 156 | 2401/16 | 15379/54 | 441 | 756 |
| 3 Mass inertia gcm ² | 14 | 15 | 9.1 | 15 | 9.4 | 9.1 | 15 | 15 | 14 | 14 |
| 4 Max. motor shaft diameter mm | 10 | 10 | 8 | 10 | 8 | 8 | 10 | 10 | 10 | 10 |
| Order Number | 203114 | 203116 | | 203121 | 203125 | | 203130 | 203134 | 203138 | 203142 |
| 1 Reduction | 4.3 : 1 | 15 : 1 | | 53 : 1 | 91 : 1 | | 186 : 1 | 319 : 1 | 488 : 1 | 936 : 1 |
| 2 Reduction absolute | 13/3 | 91/6 | | 637/12 | 91 | | 4459/24 | 637/2 | 4394/9 | 936 |
| 3 Mass inertia gcm ² | 9.1 | 15 | | 15 | 15 | | 15 | 15 | 9.4 | 9.1 |
| 4 Max. motor shaft diameter mm | 8 | 10 | | 10 | 10 | | 10 | 10 | 8 | 8 |
| Order Number | | 203117 | | 203122 | 203126 | | 203131 | 203135 | 203139 | |
| 1 Reduction | | 19 : 1 | | 66 : 1 | 113 : 1 | | 230 : 1 | 353 : 1 | 546 : 1 | |
| 2 Reduction absolute | | 169/9 | | 1183/18 | 338/3 | | 8281/36 | 28561/81 | 546 | |
| 3 Mass inertia gcm ² | | 9.4 | | 15 | 9.4 | | 15 | 9.4 | 14 | |
| 4 Max. motor shaft diameter mm | | 8 | | 10 | 8 | | 10 | 8 | 10 | |
| Order Number | | 203118 | | 203123 | 203127 | | 203132 | 203136 | 203140 | |
| 1 Reduction | | 21 : 1 | | 74 : 1 | 126 : 1 | | 257 : 1 | 394 : 1 | 676 : 1 | |
| 2 Reduction absolute | | 21 | | 147/2 | 126 | | 1029/4 | 1183/3 | 676 | |
| 3 Mass inertia gcm ² | | 14 | | 15 | 14 | | 15 | 15 | 9.1 | |
| 4 Max. motor shaft diameter mm | | 10 | | 10 | 10 | | 10 | 10 | 8 | |
| 5 Number of stages | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| 6 Max. continuous torque Nm | 3.0 | 7.5 | 7.5 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| 7 Intermittently permissible torque at gear output Nm | 4.5 | 11.3 | 11.3 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 |
| 8 Max. efficiency % | 90 | 81 | 81 | 72 | 72 | 72 | 64 | 64 | 64 | 64 |
| 9 Weight g | 260 | 360 | 360 | 460 | 460 | 460 | 560 | 560 | 560 | 560 |
| 10 Average backlash no load ° | 0.3 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 11 Gearhead length L1 mm | 40.9 | 55.4 | 55.4 | 69.9 | 69.9 | 69.9 | 84.4 | 84.4 | 84.4 | 84.4 |



maxon Modular System

| + Motor | Page | + Sensor | Page | + Brake | Page | Overall length [mm] = Motor length + gearhead length + (sensor / brake) + assembly parts | | | | | | | |
|--------------------|------|-----------|------|---------|------|--|-------|-------|-------|-------|-------|-------|-------|
| EC 45, 250 W | 159 | | | | | 185.0 | 199.5 | 199.5 | 214.0 | 214.0 | 214.0 | 228.5 | 228.5 |
| EC 45, 250 W | 159 | HEDL 9140 | 273 | | | 200.6 | 215.1 | 215.1 | 229.6 | 229.6 | 229.6 | 244.1 | 244.1 |
| EC 45, 250 W | 159 | Res 26 | 278 | | | 185.0 | 199.5 | 199.5 | 214.0 | 214.0 | 214.0 | 228.5 | 228.5 |
| EC 45, 250 W | 159 | | | AB 28 | 317 | 192.4 | 206.9 | 206.9 | 221.4 | 221.4 | 221.4 | 235.9 | 235.9 |
| EC 45, 250 W | 159 | HEDL 9140 | 273 | AB 28 | 317 | 209.4 | 223.9 | 223.9 | 238.4 | 238.4 | 238.4 | 252.9 | 252.9 |
| EC-max 30, 60 W | 171 | | | | | 105.0 | 119.5 | 119.5 | 134.0 | 134.0 | 134.0 | 148.5 | 148.5 |
| EC-max 30, 60 W | 171 | MR | 264 | | | 117.2 | 131.7 | 131.7 | 146.2 | 146.2 | 146.2 | 160.7 | 160.7 |
| EC-max 30, 60 W | 171 | HEDL 5540 | 271 | | | 125.6 | 140.1 | 140.1 | 154.6 | 154.6 | 154.6 | 169.1 | 169.1 |
| EC-max 30, 60 W | 171 | | | AB 20 | 314 | 140.6 | 155.1 | 155.1 | 169.6 | 169.6 | 169.6 | 184.1 | 184.1 |
| EC-max 30, 60 W | 171 | HEDL 5540 | 271 | AB 20 | 314 | 164.6 | 179.1 | 179.1 | 193.6 | 193.6 | 193.6 | 208.1 | 208.1 |
| EC-max 40, 70 W | 172 | | | | | 99.0 | 113.5 | 113.5 | 128.0 | 128.0 | 128.0 | 142.5 | 142.5 |
| EC-max 40, 70 W | 172 | MR | 265 | | | 114.9 | 129.4 | 129.4 | 143.9 | 143.9 | 143.9 | 158.4 | 158.4 |
| EC-max 40, 70 W | 172 | HEDL 5540 | 271 | | | 122.4 | 136.9 | 136.9 | 151.4 | 151.4 | 151.4 | 165.9 | 165.9 |
| EC-max 40, 70 W | 172 | | | AB 28 | 315 | 139.0 | 153.5 | 153.5 | 168.0 | 168.0 | 168.0 | 182.5 | 182.5 |
| EC-max 40, 70 W | 173 | HEDL 5540 | 271 | AB 28 | 315 | 162.4 | 176.9 | 176.9 | 191.4 | 191.4 | 191.4 | 205.9 | 205.9 |
| EC-power 30, 100 W | 179 | | | | | 88.0 | 102.5 | 102.5 | 117.0 | 117.0 | 117.0 | 131.5 | 131.5 |
| EC-power 30, 100 W | 179 | MR | 264 | | | 100.2 | 114.7 | 114.7 | 129.2 | 129.2 | 129.2 | 143.7 | 143.7 |
| EC-power 30, 100 W | 179 | HEDL 5540 | 272 | | | 108.6 | 123.1 | 123.1 | 137.6 | 137.6 | 137.6 | 152.1 | 152.1 |
| EC-power 30, 100 W | 179 | | | AB 20 | 314 | 124.2 | 138.7 | 138.7 | 153.2 | 153.2 | 153.2 | 167.7 | 167.7 |
| EC-power 30, 100 W | 179 | HEDL 5540 | 272 | AB 20 | 314 | 145.0 | 159.5 | 159.5 | 174.0 | 174.0 | 174.0 | 188.5 | 188.5 |
| EC-power 30, 200 W | 180 | | | | | 105.0 | 119.5 | 119.5 | 134.0 | 134.0 | 134.0 | 148.5 | 148.5 |
| EC-power 30, 200 W | 180 | MR | 264 | | | 117.2 | 131.7 | 131.7 | 146.2 | 146.2 | 146.2 | 160.7 | 160.7 |
| EC-power 30, 200 W | 180 | HEDL 5540 | 272 | | | 125.6 | 140.1 | 140.1 | 154.6 | 154.6 | 154.6 | 169.1 | 169.1 |
| EC-power 30, 200 W | 180 | | | AB 20 | 314 | 141.2 | 155.7 | 155.7 | 170.2 | 170.2 | 170.2 | 184.7 | 184.7 |
| EC-power 30, 200 W | 180 | HEDL 5540 | 272 | AB 20 | 314 | 162.0 | 176.5 | 176.5 | 191.0 | 191.0 | 191.0 | 205.5 | 205.5 |
| MCD EPOS, 60 W | 311 | | | | | 161.0 | 175.5 | 175.5 | 190.0 | 190.0 | 190.0 | 204.5 | 204.5 |
| MCD EPOS P, 60 W | 311 | | | | | 161.0 | 175.5 | 175.5 | 190.0 | 190.0 | 190.0 | 204.5 | 204.5 |