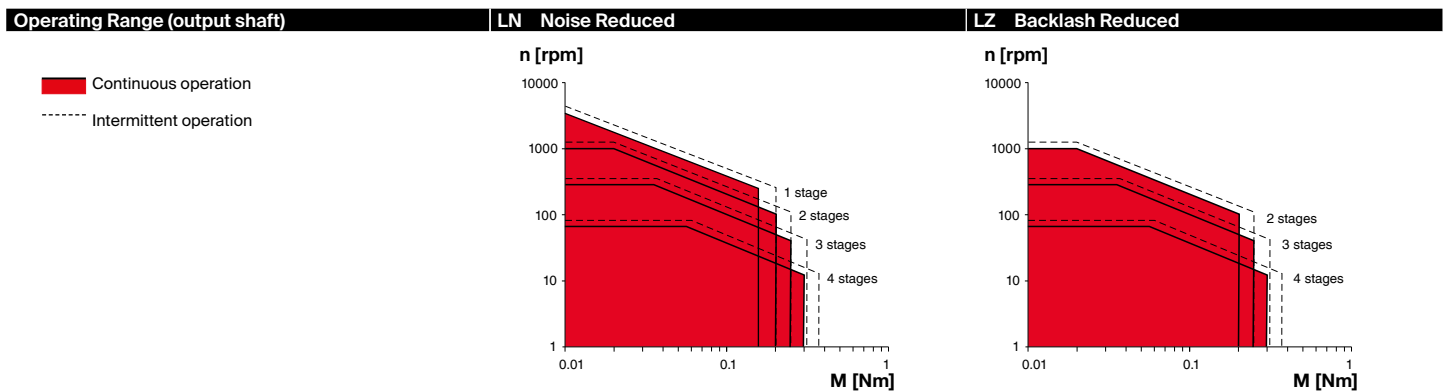


GPX 14 Ø14 mm, planetary gearhead



GPX

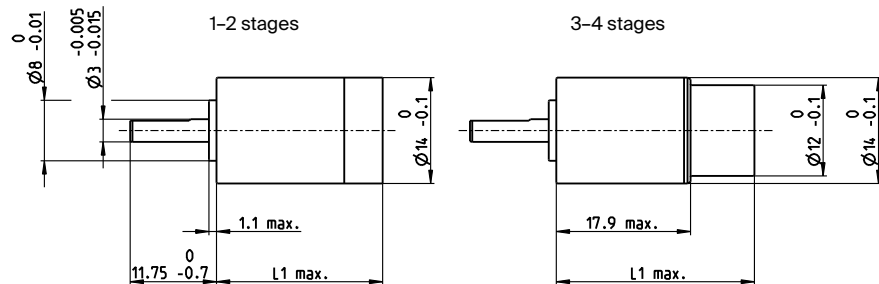
| Key Data | | LN Noise Reduced | LZ Backlash Reduced |
|-----------------------------|-----|---|---------------------|
| Max. transmittable power | W | 3.2 | 3 |
| Max. continuous torque | Nm | 0.24 | 0.3 |
| Max. continuous input speed | rpm | 16 000 | 16 000 |
| Ambient temperature | °C | -40 ... +85 | -40 ... +100 |
| Bearing at output | | Ball bearing | Ball bearing |
| Typical noise level | dBA | -5 dBA compared to standard configuration | |



| Specifications | LN Noise Reduced | | | | LZ Backlash Reduced | | | |
|---------------------------------------|------------------|--------|--------|--------|---------------------|--------|--------|--------|
| | 1 | 2 | 3 | 4 | 2 | 3 | 4 | |
| Number of stages | | | | | | | | |
| Max. transmittable continuous power | W | 3.2 | 1.6 | 0.8 | 0.3 | 2.0 | 1.0 | 0.4 |
| Max. transmittable intermittent power | W | 4.0 | 2.0 | 1.0 | 0.4 | 2.5 | 1.25 | 0.5 |
| Max. continuous torque | Nm | 0.13 | 0.16 | 0.20 | 0.24 | 0.20 | 0.25 | 0.30 |
| Max. intermittent torque | Nm | 0.16 | 0.20 | 0.25 | 0.30 | 0.25 | 0.31 | 0.38 |
| Max. continuous input speed | rpm | 14 000 | 16 000 | 16 000 | 16 000 | 16 000 | 16 000 | 16 000 |
| Max. intermittent input speed | rpm | 17 500 | 20 000 | 20 000 | 20 000 | 20 000 | 20 000 | 20 000 |
| Max. efficiency | % | 90 | 80 | 75 | 65 | 80 | 75 | 65 |
| Average backlash no load | ° | 1.1 | 1.3 | 1.45 | 1.7 | 0.95 | 1.05 | 1.2 |
| Max. axial load (dynamic) | N | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Max. radial load, 5 mm from flange | N | 30 | 45 | 60 | 60 | 45 | 60 | 60 |
| Gearhead length L1 ¹ | mm | 15.7 | 20.8 | 25.5 | 30.3 | 20.8 | 25.5 | 30.3 |
| Weight | g | 14 | 19 | 21 | 23 | 19 | 21 | 23 |

| Configuration | LN Noise Reduced | | | | LZ Backlash Reduced | | | |
|----------------------------------|--|---------------|--------------------|---|---|--------------------|---|---|
| | 1 | 2 | 3 | 4 | 2 | 3 | 4 | |
| Number of stages | | | | | | | | |
| Reduction | X:1 | 3.9, 5.3, 6.6 | 16, 21, 26, 28, 35 | 62, 83, 103, 111, 138, 150, 172, 186, 231 | 243, 326, 406, 439, 546, 590, 679, 734, 794, 913, 987, 1135, 1227, 1526 | 16, 21, 26, 28, 35 | 62, 83, 103, 111, 138, 150, 172, 186, 231 | 243, 326, 406, 439, 546, 590, 679, 734, 794, 913, 987, 1135, 1227, 1526 |
| Absolute reduction: (see online) | | | | | | | | |
| Version | Standard/ceramic version/noise reduced/backlash reduced/high power | | | | | | | |
| Flange | Standard flange/configurable flange | | | | | | | |
| Shaft | Length/flat face | | | | | | | |

| maxon Modular System | | Page | Dimensions | M 11 |
|-----------------------|---------------------|---------|------------|------|
| maxon DC motor | Nº of stages [opt.] | | | |
| DCX 12 S | 3-4 | 89 | | |
| DCX 12 L | 3-4 | 90 | | |
| DCX 14 L | 1-2 [3-4] | 91-92 | | |
| maxon EC motor | Nº of stages [opt.] | | | |
| ECX SPEED 13 M | 1-2 [3-4] | 187-188 | | |
| ECX SPEED 13 L | 1-2 [3-4] | 191-192 | | |



¹This length may vary depending on the configuration and choice of motor. The effective length is calculated at the end of the configuration process.

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