


DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

| Specification | DSC-32-160-AJ-M | Diagram |  |
|--------------------------------------|-----------------|------------------------------------|-------------------------------------------------------------------------------------|
| Model | 32 | | |
| Ratio | 160 | | |
| Item | Value | Unit | |
| Rated torque at input 2000rpm | 137 | Nm | |
| Average torque | 216 | Nm | |
| Repeated peak torque | 372 | Nm | |
| Momentary peak torque | 686 | Nm | |
| Average input speed | 3500 | rpm | |
| Maximum input speed | 4800 | rpm | |
| Moment of inertia | 1.2 | x10 ⁻⁴ kgm ² | |
| Transmission accuracy | 1 | arc min | |
| Repeatability | ±6 | arc sec | |
| Maximum backlash | - | arc sec | |
| Hysteresis loss | 1 | arc min | |
| Lost motion | 1 | arc min | |
| Torsional Stiffness K1 | 2 | kgfm/arc min | |
| Torsional Stiffness K2 | 3.2 | kgfm/arc min | |
| No load starting torque | 23 | cNm | |
| No load running torque(25°C/2000rpm) | 41.5 | cNm | |
| Weight | 5.4 | kg | |
| Permissible dynamic tilting moment | 578 | Nm | |
| Permissible axial load | 9.357 | kN | |
| Permissible radial load | 6.269 | kN | |