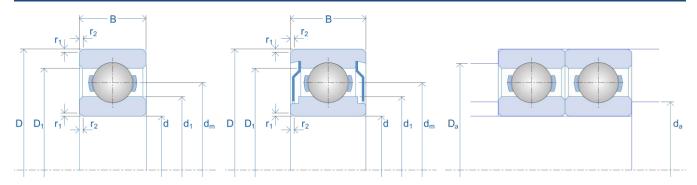


Data Sheet High Precision Ball Bearings





| Part Number | 607 |
|---|--------|
| Bearing Series | Radial |
| Hybrid (Si ₃ N ₄ Balls) | No |

Geometrical Data

| Number of Balls | Z [Qty.] | 8 |
|-----------------|----------|-------|
| Bearing Weight | m [kg] | 8.000 |

Bearing Load Ratings¹

| Dynamic Radial Load Rating | C [N] | 2,280 |
|--|-----------------------|-------|
| Static Radial Load Rating Steel Balls | C ₀ [N] | 950 |
| Static Radial Load Rating Si ₃ N ₄ balls | C _{0 HY} [N] | 670 |

Bearing RPM Ratings²

| Speed Value with Oil Lubrication | n _{oil} [1/min] | 96,750 |
|-------------------------------------|-----------------------------|--------|
| Speed Value with Grease Lubrication | n _{grease} [1/min] | 77,400 |

Bearing Dimensions

| Bore Diameter | d [mm] | 7 |
|----------------|-----------------------|-------|
| Outer Diameter | D [mm] | 19 |
| Bearing Width | B [mm] | 6 |
| Pitch Circle | d _m [mm] | 13.3 |
| Ball Diameter | D _w [mm] | 3.175 |
| OD Inner Ring | d ₁ [mm] | 10.7 |
| ID Outer Ring | D ₁ [mm] | 15.8 |
| Chamfer | r _{1,2} [mm] | 0.3 |

Mating Part Dimensions

| Abutment Diameter Inner Ring | d _a min. [mm] | 9.5 |
|------------------------------|--------------------------|------|
| Abutment Diameter Outer Ring | D _a max. [mm] | 16.5 |
| Chamfer Associated Component | ra max. [mm] | 0.3 |

Notes:

- 1. The stated load ratings are given for a single bearing with grease lubrication. If specific applications differ, please consult GMN USA engineers.
- 2. Speed ratings are for phenolic outer land guided cage (TA). Please consult the full GMN Bearing catalog or GMN USA engineers for speed ratings of different cages.