

51120

Single direction thrust ball bearings can accommodate axial loads in one direction. They must not be subjected to any radial load. Their separable components facilitate mounting/dismounting and maintenance inspections. Many of the components are interchangeable. The shaft washers have a ground bore that enables an interference fit.



- Separable design facilitates mounting/dismounting and maintenance inspections
- Interchangeable components
- Ground bore of shaft washers enable interference fit



| Dimensions       |           |                               |
|------------------|-----------|-------------------------------|
| d                | 100 mm    | Bore diameter                 |
| D                | 135 mm    | Outside diameter              |
| H                | 25 mm     | Height                        |
| d <sub>1</sub>   | ≈ 135 mm  | Outside diameter shaft washer |
| D <sub>1</sub>   | ≈ 102 mm  | Inner diameter housing washer |
| r <sub>1,2</sub> | min. 1 mm | Chamfer dimension washer      |



| Abutment dimensions |             |                           |
|---------------------|-------------|---------------------------|
| da                  | min. 121 mm | Abutment diameter shaft   |
| Da                  | max. 114 mm | Abutment diameter housing |
| ra                  | max. 1 mm   | Fillet radius             |

Calculation data

|                           |   |         |
|---------------------------|---|---------|
| Basic dynamic load rating | C | 80.6 kN |
|---------------------------|---|---------|

|                          |                |             |
|--------------------------|----------------|-------------|
| Basic static load rating | C <sub>0</sub> | 265 kN      |
| Fatigue load limit       | P <sub>u</sub> | 9.15 kN     |
| Reference speed          |                | 2 400 r/min |
| Limiting speed           |                | 3 200 r/min |
| Minimum load factor      | A              | 0.44        |

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table 1

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit