

3212 A-2RS1

Double row angular contact ball bearings, with seals or shields, correspond to a pair of single row angular contact ball bearings in a back-to-back arrangement, while requiring less axial space. Depending on the sealing execution, they can operate at high speeds and are more suitable than deep groove ball bearings for supporting large axial forces in both directions.



- High-speed capability
- Accommodate relatively high radial loads, high axial loads in both directions and tilting moments
- Suitable where a stiff bearing arrangement is required
- Require less axial space than equivalent pair of single row angular contact ball bearings
- Integral sealing prolongs bearing service life



| Dimensions       |             |                                     |
|------------------|-------------|-------------------------------------|
| d                | 60 mm       | Bore diameter                       |
| D                | 110 mm      | Outside diameter                    |
| B                | 36.5 mm     | Width                               |
| d <sub>2</sub>   | ≈ 68.8 mm   | Recess diameter inner ring shoulder |
| D <sub>2</sub>   | ≈ 100.5 mm  | Recess diameter outer ring shoulder |
| r <sub>1,2</sub> | min. 1.5 mm | Chamfer dimension inner ring        |
| a                | 63 mm       | Distance pressure point(s)          |



| Abutment dimensions |              |                           |
|---------------------|--------------|---------------------------|
| d <sub>a</sub>      | min. 68.5 mm | Abutment diameter shaft   |
| d <sub>a</sub>      | max. 68.5 mm | Abutment diameter shaft   |
| D <sub>a</sub>      | max. 101 mm  | Abutment diameter housing |
| r <sub>a</sub>      | max. 1.5 mm  | Fillet radius             |

## Calculation data

|                           |                |             |
|---------------------------|----------------|-------------|
| performance class         |                | Explorer    |
| Basic dynamic load rating | C              | 75 kN       |
| Basic static load rating  | C <sub>0</sub> | 64 kN       |
| Fatigue load limit        | P <sub>u</sub> | 2.75 kN     |
| Limiting speed            |                | 4 000 r/min |
| Calculation factor        | k <sub>r</sub> | 0.06        |
| Limiting value            | e              | 0.8         |
| Calculation factor        | X              | 0.63        |
| Calculation factor        | Y <sub>0</sub> | 0.66        |
| Calculation factor        | Y <sub>1</sub> | 0.78        |
| Calculation factor        | Y <sub>2</sub> | 1.24        |

## Tolerances and clearances

### GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5
- Internal clearance: table, drawing no

### BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit