

KDN.KF090XP0

Four-point contact ball bearings can accommodate radial, axial and moment loads simultaneously. One bearing series is based on a single cross section which remains constant as the bore diameter increases, leading to significant space and weight savings. The bearings are available with or inch main dimensions. Depending on the design and series the bearings can be provided with chemical and corrosion resistance.



- Accommodate radial, axial and moment loads simultaneously
- Require considerably less axial space than two angular contact ball bearings
- Thin cross section
- Lightweight
- Low friction
- High stiffness
- High running accuracy



| Dimensions     |              |                                           |
|----------------|--------------|-------------------------------------------|
| d              | 228.6 mm     | Bore diameter                             |
| D              | 266.7 mm     | Outside diameter                          |
| H              | 19.05 mm     | Radial cross section                      |
| B              | 19.05 mm     | Width                                     |
| d <sub>1</sub> | ≈ 242.697 mm | Shoulder diameter inner ring              |
| D <sub>1</sub> | ≈ 252.603 mm | Shoulder diameter outer ring              |
|                | 9.525 mm     | Ball diameter                             |
|                | 2.032 mm     | Maximum radius of shaft or housing fillet |

Calculation data

|                                               |                |         |
|-----------------------------------------------|----------------|---------|
| Dynamic load rating, Kaydon, radial direction | C <sub>k</sub> | 30.9 kN |
| Basic static load rating, radial direction    | C <sub>0</sub> | 48.9 kN |

|                                           |          |            |
|-------------------------------------------|----------|------------|
| Basic static load rating, axial direction | $C_{0a}$ | 122 kN     |
| Basic dynamic load rating, moment         | $C_M$    | 2.871 kN·m |
| Basic static load rating, moment          | $C_{0M}$ | 6.061 kN·m |

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances, radial clearance and recommended fits:
  - Endurakote bearings: Class 1, Class 1, Class 3, Class 4
  - bearings: Class 1
  - other bearings: Class 1, Class 1, Class 3, Class 4, Class 6
- Materials

AGA BEARINGS