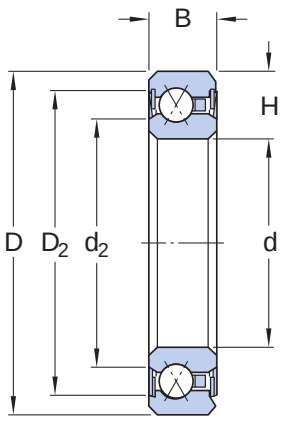
KDN.JB040XP0

Four-point contact ball bearings with seals or shields 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 integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out. The bearings are available with and inch boundary dimensions.

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



Dimensions

d	101.6 mm	Bore diameter
D	117.475 mm	Outside diameter
H	7.938 mm	Radial cross section
B	7.938 mm	Width
d_1	≈ 107.48 mm	Shoulder diameter inner ring
d_2	≈ 106.655 mm	Recess diameter inner ring
D_1	≈ 111.595 mm	Shoulder diameter outer ring
D_2	≈ 112.395 mm	Recess diameter outer ring
	3.969 mm	Ball diameter
	1.016 mm	Maximum radius of shaft or housing fillet

Calculation data

Dynamic load rating, Kaydon, radial direction	C_K	4.85 kN
Basic static load rating, radial direction	C_0	7.78 kN
Basic static load rating, axial direction	C_{0a}	19.4 kN
Basic dynamic load rating, moment	C_M	0.199 kN·m
Basic static load rating, moment	C_{0M}	0.426 kN·m
Starting torque max. no load		0.141 N·m
Limiting speed		620 r/min

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