



Image may differ from product. See technical specification for details.

7202 BE-2RZP

Single row angular contact ball bearing with 40° contact angle and non-contact seals on both sides

These single row angular contact ball bearings, with 40° contact angle and non-contact seals on both sides, accommodate radial and axial loads acting simultaneously, where the axial load acts in one direction only. They have a ball-centred glass-fibre reinforced PA66 cage. They are more suitable than deep groove ball bearings for supporting large axial forces acting in one direction.

- 40° contact angle
- Integral sealing prolongs bearing service life
- Glass-fibre reinforced PA66 cage
- Accommodate relatively high radial loads and large unilateral axial loads

Overview

Dimensions

Bore diameter	0.591 in
Outside diameter	1.378 in
Width	0.433 in
Contact angle	40 °

Performance

Basic dynamic load rating	1 870 lbf
Basic static load rating	989 lbf
Reference speed	24 000 r/min
Limiting speed	20 000 r/min

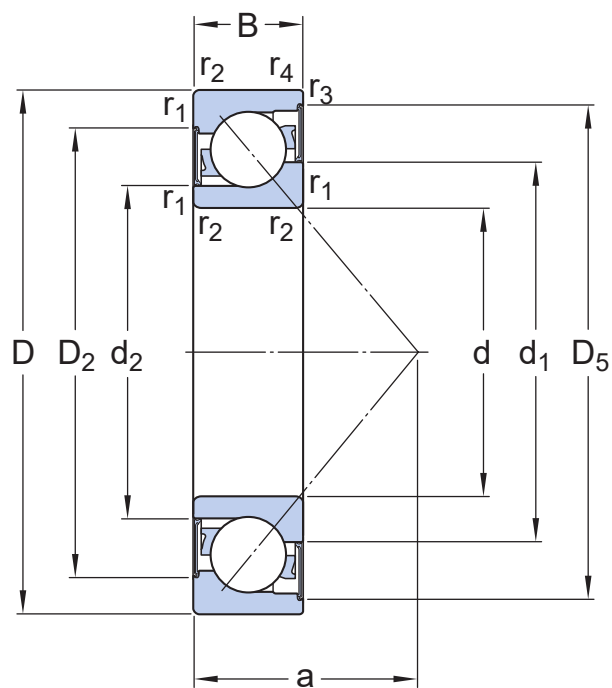
Properties

Contact type	Normal contact (two-point contact)
Number of rows	1
Locating feature, bearing outer ring	None
Ring type	One-piece inner and outer rings
Cage	Non-metallic
Matched arrangement	No
Universal matching bearing	No
Axial internal clearance	Not applicable
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Seal on both sides
Sealing type	Non-contact
Lubricant	Grease
Relubrication feature	Without

Logistics

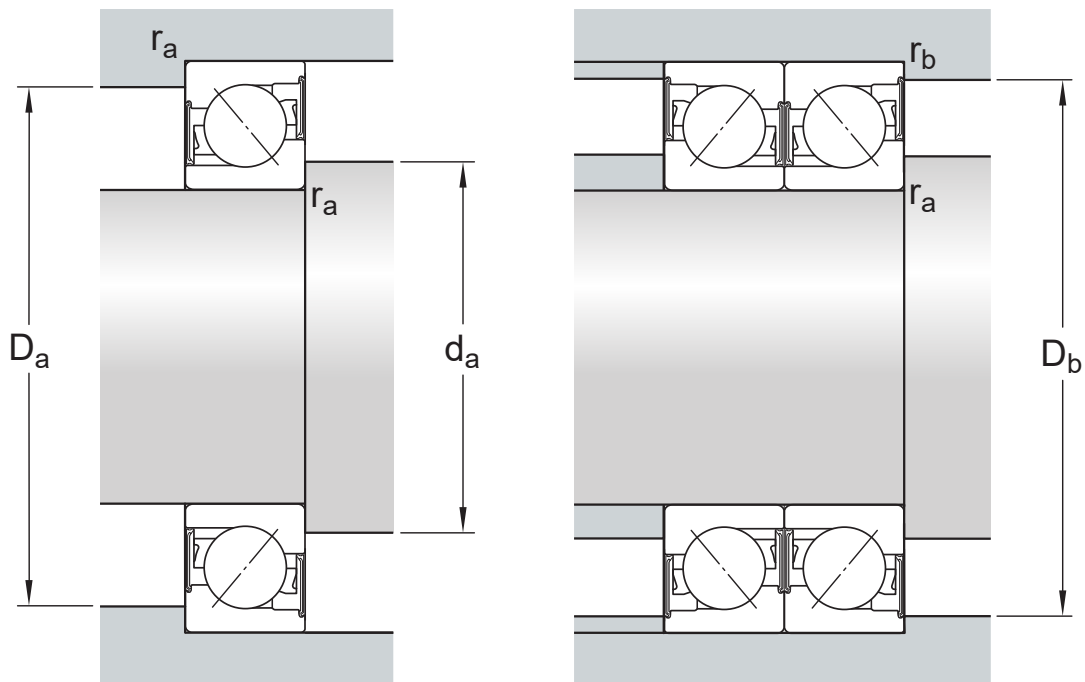
Product net weight	0.09833 lb
eClass code	23-05-08-03
UNSPSC code	31171531

Technical specification



Dimensions

d	0.591 in	Bore diameter
D	1.378 in	Outside diameter
B	0.433 in	Width
d ₁	≈ 0.906 in	Shoulder diameter of inner ring (large side face)
d ₂	≈ 0.745 in	Shoulder diameter of inner ring (small side face)
D ₂	≈ 1.122 in	Recess diameter of outer ring (large side face)
D ₅	≈ 1.276 in	Recess diameter of outer ring (small side face)
a	0.63 in	Distance side face to pressure point
r _{1,2}	min. 0.024 in	Chamfer dimension
r _{3,4}	min. 0.012 in	Chamfer dimension



Abutment dimensions

d_a	min. 0.756 in	Diameter of shaft abutment
d_a	max. 0.886 in	Diameter of shaft abutment
D_a	max. 1.213 in	Abutment diameter housing
D_b	max. 1.283 in	Diameter of housing abutment
r_a	max. 0.024 in	Radius of fillet
r_b	max. 0.012 in	Radius of fillet

Calculation data

Basic dynamic load rating	C	1 870 lbf
Basic static load rating	C_0	989 lbf
Fatigue load limit	P_u	41 lbf
Reference speed		24 000 r/min
Limiting speed		20 000 r/min

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS




- Tolerances: Normal (metric), P6, P5, Normal (inch)
- Internal clearance: CA+CB+CC, G

- Preload: GA+GB+GC

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

More Information

<div> Product details</div> <div><div>Designs and variants</div><div>General bearing specifications</div><div>Loads</div><div>Temperature limits</div><div>Permissible speed</div><div>Design considerations</div><div>Designation system</div></div>	<div> Engineering information</div> <div><div>Principles of rolling bearing selection</div><div>General bearing knowledge</div><div>Bearing selection process</div><div>Bearing interfaces</div><div>Seat tolerances for standard conditions</div><div>Selecting internal clearance or preload</div><div>Lubrication</div><div>Sealing, mounting and dismounting</div><div>Bearing failure and how to prevent it</div></div>	<div> Tools</div> <div><div>SKF Product select</div><div>SimPro Quick</div><div>Bearing Frequency Calculator</div><div>LubeSelect for SKF greases</div><div>Heater selection tool</div><div>SKF mounting and dismounting instructions</div></div>
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