



KOYO PRECISION AXLE CORP.



45 mm x 85 mm x 19 mm SKF 7209 BECBJ
angular contact ball bearings

Bearing No. 7209 BECBJ

7209 BECBJ Bearing 2D drawings and 3D CAD models

Size	85x45x19 mm
Bore Diameter	85 mm
Outer Diameter	45 mm
Width	19 mm
d	45 mm
D	85 mm
B	19 mm
d ₁	60.85 mm
d ₂	52.68 mm
D ₁	70.15 mm
a	37 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
d _a - min.	52 mm
D _a - max.	78 mm
D _b - max.	80.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
Basic dynamic load rating - C	35.8 kN
Basic static load rating - C ₀	26 kN
Fatigue load limit - P _u	1.1 kN
Reference speed	9000 r/min
Limiting speed	9000 r/min
Calculation factor - k _r	0.095



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Calculation factor - k_a	1.4
Calculation factor - e	1.14
Calculation factor - X	0.57
Calculation factor - Y_0	0.52
Calculation factor - Y_1	0.55
Calculation factor - Y_2	0.93
Calculation factor - X	0.35
Calculation factor - Y_0	0.26
Calculation factor - Y_1	
Calculation factor - Y_2	0.57
Category	Angular Contact Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.446
EAN	7316570506877
Product Group	B00308
Enclosure	Open
Flush Ground	Yes
Rolling Element	Ball Bearing
Number of Rows of Balls	Single Row
Precision Class	ABEC 1 ISO P0
Maximum Capacity / Filling Slot	No
Snap Ring	No
Cage Material	Steel
Contact Angle	40 Degree
Internal Clearance	CB
Number of Bearings	1 (Single)
Mounting Arrangement	Universal
Inch - Metric	Metric



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Long Description	45MM Bore; 85MM Outside Diameter; 19MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 1 ISO P0; No Filling Slot; No Snap Ring; CB; Steel Cage; 40 Degree; 1 (Single); Universa
Other Features	Normal Axial Internal Clearance
Category	Angular Contact Ball Bearing
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Angular Contact
Manufacturer URL	http://www.skf.com
Manufacturer Item Number	7209 BECBJ
Bore	1.772 Inch 45 Millimeter
Width	0.748 Inch 19 Millimeter
Outside Diameter	3.346 Inch 85 Millimeter
d_1	60.85 mm
d_2	52.68 mm
D_1	70.15 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	52 mm
D_a max.	78 mm
D_b max.	80.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
Basic dynamic load rating C	38 kN
Basic static load rating C_0	28.5 kN
Fatigue load limit P_u	1.22 kN
Calculation factor A	0.012



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Calculation factor k_r	0.095
Calculation factor e	1.14
Calculation factor X	0.35
Calculation factor Y_0	0.26
Calculation factor Y_2	0.57
Calculation factor X	0.57
Calculation factor Y_0	0.52
Calculation factor Y_1	0.55
Calculation factor Y_2	0.93
Mass bearing	0.42 kg