



KOYO PRECISION AXLE CORP.



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

Bearing No. 7209 BECBY

7209 BECBY 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	37.7 kN
Basic static load rating - C ₀	28 kN
Fatigue load limit - P _u	1.2 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	2.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.43
EAN	7316576649912
Product Group	B00308
Enclosure	Open
Flush Ground	Yes
Rolling Element	Ball Bearing
Number of Rows of Balls	Single Row
Precision Class	ABEC 3 ISO P6
Maximum Capacity / Filling Slot	No
Snap Ring	No
Cage Material	Brass
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 3 ISO P6; No Filling Slot; No Snap Ring
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 BECBY
Weight / LBS	0.957
Width	0.748 Inch 19 Millimeter
Outside Diameter	3.346 Inch 85 Millimeter
Bore	1.772 Inch 45 Millimeter
bore diameter:	45 mm
radial static load capacity:	28 kN
outside diameter:	85 mm
cage material:	Brass
overall width:	19 mm
outer ring width:	19 mm
contact angle:	40 °
maximum rpm:	9000 RPM
row type & fill slot:	Single-Row Non-Fill Slot
finish/coating:	Uncoated
internal clearance:	C0
precision rating:	ABEC 3 (ISO Class 6)
closure type:	Open
fillet radius:	1 mm



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radial dynamic load capacity:	37.7 kN
series:	72
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	40 kN
Basic static load rating C_0	30.5 kN
Fatigue load limit P_u	1.29 kN
Calculation factor A	0.0128
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