



Bearing No. 7209 BECBJ

D	85 mm
d	45 mm
B	19 mm
a	37 mm
Bore	1.772 Inch 45 Millimeter
Noun	Bearing
Width	0.748 Inch 19 Millimeter
UNSPSC	31171531
Category	Angular Contact Ball Bearing
Inventory	0.0
Snap Ring	No
Enclosure	Open
Size (mm)	85x45x19
Width (mm)	19
Flush Ground	Yes
Mass bearing	0.42 kg
Inch - Metric	Metric
Contact Angle	40 Degree
Cage Material	Steel
D ₁	70.15 mm
d ₂	52.68 mm
d ₁	60.85 mm
Product Group	B00308
Other Features	Normal Axial Internal Clearance
Keyword String	Angular Contact
Bearing number	7209 BECBJ
Limiting speed	9000 r/min

Precision Class	ABEC 1 ISO P0
Reference speed	9000 r/min
Rolling Element	Ball Bearing
Outside Diameter	3.346 Inch 85 Millimeter
Manufacturer URL	http://www.skf.com
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
Manufacturer Name	SKF
Weight / Kilogram	0.446
d_a min.	52 mm
D_a max.	78 mm
Number of Bearings	1 (Single)
D_b max.	80.8 mm
Internal Clearance	CB
r_a max.	1 mm
r_b max.	0.6 mm
Bore Diameter (mm)	85
Outer Diameter (mm)	45
r_b - max.	0.6 mm
r_a - max.	1 mm
$r_{1,2}$ min.	1.1 mm
Minimum Buy Quantity	N/A
Mounting Arrangement	Universal
D_b - max.	80.8 mm
Calculation factor A	0.012
D_a - max.	78 mm

d_a - min.	52 mm
Calculation factor e	1.14
Calculation factor X	0.57
$r_{3,4}$ min.	0.6 mm
D_1 ?	70.15 mm
d_2 ?	52.68 mm
d_1 ?	60.85 mm
Calculation factor - e	1.14
$r_{3,4}$ - min.	0.6 mm
Calculation factor - X	0.35
Harmonized Tariff Code	8482.10.50.28
$r_{1,2}$ - min.	1.1 mm
Number of Rows of Balls	Single Row
Manufacturer Item Number	7209 BECBJ
Basic dynamic load rating C	38 kN
Basic dynamic load rating - C	35.8 kN
Maximum Capacity / Filling Slot	No
Fatigue load limit P_u	1.22 kN
Calculation factor k_r	0.095
Calculation factor Y_0	0.52
Calculation factor Y_2	0.93
Calculation factor Y_1	0.55
Fatigue load limit - P_u	1.1 kN
Calculation factor - k_r	0.095
Calculation factor - k_a	1.4
Calculation factor - Y_2	0.57
Calculation factor - Y_1	
Calculation factor - Y_0	0.26

Basic static load rating C_0	28.5 kN
Basic static load rating - C_0	26 kN