



Bearing No. 7309 BECBY

a	43 mm
d	45 mm
D	100 mm
B	25 mm
Noun	Bearing
Bore	1.772 Inch 45 Millimeter
Width	0.984 Inch 25 Millimeter
UNSPSC	31171531
series:	73
Category	Angular Contact Ball Bearing
Enclosure	Open
Snap Ring	No
Size (mm)	100x45x25
Inventory	63.0
Width (mm)	25
Weight / LBS	1.896
maximum rpm:	8000 RPM
Flush Ground	Yes
Mass bearing	0.87 kg
Contact Angle	40 Degree
Cage Material	Brass
closure type:	Open
Product Group	B00308
Inch - Metric	Metric
d ₂	55.25 mm
d ₁	66.5 mm
D ₁	79.9 mm

Other Features	Normal Axial Internal Clearance
fillet radius:	1.5 mm
contact angle:	40 °
overall width:	25 mm
cage material:	Brass
bore diameter:	45 mm
Keyword String	Angular Contact
Bearing number	7309 BECBY
Limiting speed	8000 r/min
finish/coating:	Uncoated
Rolling Element	Ball Bearing
Precision Class	ABEC 3 ISO P6
Reference speed	8000 r/min
Long Description	45MM Bore; 100MM Outside Diameter; 25MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3 ISO P6; No Filling Slot; No Snap Ring
Outside Diameter	3.937 Inch 100 Millimeter
Manufacturer URL	http://www.skf.com
Weight / Kilogram	0.86
precision rating:	ABEC 3 (ISO Class 6)
outside diameter:	100 mm
Manufacturer Name	SKF
outer ring width:	25 mm
d _a min.	54 mm
Number of Bearings	1 (Single)
Bore Diameter (mm)	100
r _b max.	1 mm
r _a max.	1.5 mm

Internal Clearance	CB
D _b max.	94.4 mm
D _a max.	91 mm
internal clearance:	C0
Outer Diameter (mm)	45
r _{1,2} min.	1.5 mm
Calculation factor A	0.0292
Calculation factor e	1.14
Calculation factor X	0.57
Mounting Arrangement	Universal
r _{3,4} min.	1 mm
r _b - max.	1 mm
r _a - max.	1.5 mm
D _b - max.	94.4 mm
d _a - min.	54 mm
Minimum Buy Quantity	N/A
D _a - max.	91 mm
D ₁ ?	79.9 mm
d ₂ ?	55.25 mm
d ₁ ?	66.5 mm
row type & fill slot:	Single-Row Non-Fill Slot
Calculation factor - X	0.35
Calculation factor - e	1.14
r _{1,2} - min.	1.5 mm
r _{3,4} - min.	1 mm
Harmonized Tariff Code	8482.10.50.28
Number of Rows of Balls	Single Row
Manufacturer Item Number	7309 BECBY
Basic dynamic load rating C	64 kN
radial static load capacity:	41-1/2 kN

radial dynamic load capacity:	60.5 kN
Basic dynamic load rating - C	60.5 kN
Maximum Capacity / Filling Slot	No
Calculation factor Y_0	0.52
Calculation factor Y_2	0.93
Calculation factor Y_1	0.55
Calculation factor k_r	0.1
Fatigue load limit P_u	1.9 kN
Calculation factor - k_r	0.1
Calculation factor - Y_0	0.26
Fatigue load limit - P_u	1.7 kN
Calculation factor - Y_1	
Calculation factor - Y_2	0.57
Calculation factor - k_a	1.6
Basic static load rating C_0	45 kN
Basic static load rating - C_0	41.5 kN