



Bearing No. 7309 BECBM

Category	Angular Contact Ball Bearings
BDI Inventory	11.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.9
EAN	7316576634154
Product Group - BDI	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
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
Other Features	Normal Axial Internal Clearance
Category - BDI	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	7309 BECBM
Weight / LBS	1.98
Bore	1.772 Inch 45 Millimeter
Width	0.984 Inch 25 Millimeter
Outside Diameter	3.937 Inch 100 Millimeter
Size	100x45x25 mm
Bore Diameter	100 mm
Outer Diameter	45 mm
Width	25 mm
d	45 mm
D	100 mm
B	25 mm
d ₁	66.5 mm
d ₂	55.25 mm
D ₁	79.9 mm
a	43 mm
r _{1,2} - min.	1.5 mm
r _{3,4} - min.	1 mm
d _a - min.	54 mm
D _a - max.	91 mm
D _b - max.	94.4 mm
r _a - max.	1.5 mm
r _b - max.	1 mm

Basic dynamic load rating - C	61 kN
Basic static load rating - C ₀	40.5 kN
Fatigue load limit - P _u	1.7 kN
Reference speed	9000 r/min
Limiting speed	9000 r/min
Calculation factor - k _r	0.1
Calculation factor - k _a	1.6
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
bore diameter:	45 mm
radial static load capacity:	40-1/2 kN
outside diameter:	100 mm
cage material:	Brass
overall width:	25 mm
outer ring width:	25 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:	1.5 mm
radial dynamic load capacity:	61 kN
series:	73
d_1 ?	66.5 mm
d_2 ?	55.25 mm
D_1 ?	79.9 mm
$r_{1,2}$ min.	1.5 mm
$r_{3,4}$ min.	1 mm
d_a min.	54 mm
D_a max.	91 mm
D_b max.	94.4 mm
r_a max.	1.5 mm
r_b max.	1 mm
Basic dynamic load rating C	61 kN
Basic static load rating C_0	40.5 kN
Fatigue load limit P_u	1.73 kN
Calculation factor A	0.0268
Calculation factor k_r	0.1
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	0.91 kg