



NTN Driveshaft CORP.



35 mm x 80 mm x 21 mm SKF 7307 BECBY angular contact ball bearings

Bearing No. 7307 BECBY

7307 BECBY Bearing 2D drawings and 3D CAD models

Size	80x35x21 mm
Bore Diameter	80 mm
Outer Diameter	35 mm
Width	21 mm
d	35 mm
D	80 mm
B	21 mm
d ₁	52.65 mm
d ₂	43.62 mm
D ₁	63.45 mm
a	35 mm
r _{1,2} - min.	1.5 mm
r _{3,4} - min.	1 mm
d _a - min.	44 mm
D _a - max.	71 mm
D _b - max.	74.4 mm
r _a - max.	1.5 mm
r _b - max.	1 mm
Basic dynamic load rating - C	39 kN
Basic static load rating - C ₀	24.5 kN
Fatigue load limit - P _u	1 kN
Reference speed	10000 r/min
Limiting speed	10000 r/min
Calculation factor - k _r	0.1



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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
Category	Angular Contact Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.47
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
Long Description	35MM Bore; 80MM



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	Outside Diameter; 21MM 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	7307 BECBY
Weight / LBS	1.032
Bore	1.378 Inch 35 Millimeter
Width	0.827 Inch 21 Millimeter
Outside Diameter	3.15 Inch 80 Millimeter
bore diameter:	35 mm
radial static load capacity:	24.5 kN
outside diameter:	80 mm
cage material:	Brass
overall width:	21 mm
outer ring width:	21 mm
contact angle:	40 °
maximum rpm:	10000 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



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radial dynamic load capacity:	39 kN
series:	73
d_1	52.5 mm
d_2	43.62 mm
D_1	63.45 mm
$r_{1,2}$ min.	1.5 mm
$r_{3,4}$ min.	1 mm
d_a min.	44 mm
D_a max.	71 mm
D_b max.	74.4 mm
r_a max.	1.5 mm
r_b max.	1 mm
Basic dynamic load rating C	41.5 kN
Basic static load rating C_0	26.5 kN
Fatigue load limit P_u	1.14 kN
Calculation factor A	0.0111
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	0.45 kg