



**Bearing No. 7307 BECBY**

a	35 mm
d	35 mm
D	80 mm
B	21 mm
Noun	Bearing
Bore	1.378 Inch   35 Millimeter
Width	0.827 Inch   21 Millimeter
UNSPSC	31171531
series:	73
Category	Angular Contact Ball Bearing
Enclosure	Open
Snap Ring	No
Size (mm)	80x35x21
Inventory	0.0
Width (mm)	21
Weight / LBS	1.032
maximum rpm:	10000 RPM
Flush Ground	Yes
Mass bearing	0.45 kg
Contact Angle	40 Degree
Cage Material	Brass
closure type:	Open
Product Group	B00308
Inch - Metric	Metric
d <sub>1</sub>	52.65 mm
D <sub>1</sub>	63.45 mm
d <sub>2</sub>	43.62 mm

Bearing number	7307 BECBY
bore diameter:	35 mm
Other Features	Normal Axial Internal Clearance
Keyword String	Angular Contact
cage material:	Brass
Limiting speed	10000 r/min
overall width:	21 mm
contact angle:	40 °
fillet radius:	1.5 mm
Reference speed	10000 r/min
finish/coating:	Uncoated
Rolling Element	Ball Bearing
Precision Class	ABEC 3   ISO P6
Long Description	35MM Bore; 80MM Outside Diameter; 21MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3   ISO P6; No Filling Slot; No Snap Ring
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Outside Diameter	3.15 Inch   80 Millimeter
precision rating:	ABEC 3 (ISO Class 6)
outer ring width:	21 mm
Manufacturer Name	SKF
outside diameter:	80 mm
Weight / Kilogram	0.47
r <sub>b</sub> max.	1 mm
Bore Diameter (mm)	80
D <sub>a</sub> max.	71 mm
D <sub>b</sub> max.	74.4 mm
r <sub>a</sub> max.	1.5 mm
d <sub>a</sub> min.	44 mm

Internal Clearance	CB
Number of Bearings	1 (Single)
internal clearance:	C0
Outer Diameter (mm)	35
Calculation factor A	0.0111
$d_a$ - min.	44 mm
$r_a$ - max.	1.5 mm
$D_b$ - max.	74.4 mm
Mounting Arrangement	Universal
Minimum Buy Quantity	N/A
$r_{1,2}$ min.	1.5 mm
$D_a$ - max.	71 mm
$r_{3,4}$ min.	1 mm
Calculation factor X	0.57
Calculation factor e	1.14
$r_b$ - max.	1 mm
$D_1$ ?	63.45 mm
$d_2$ ?	43.62 mm
$d_1$ ?	52.5 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
Harmonized Tariff Code	8482.10.50.28
$r_{3,4}$ - min.	1 mm
Number of Rows of Balls	Single Row
Manufacturer Item Number	7307 BECBY
Basic dynamic load rating C	41.5 kN
radial static load capacity:	24.5 kN
Basic dynamic load	39 kN

rating - C	
radial dynamic load capacity:	39 kN
Maximum Capacity / Filling Slot	No
Calculation factor $k_r$	0.1
Calculation factor $Y_1$	0.55
Calculation factor $Y_2$	0.93
Calculation factor $Y_0$	0.52
Fatigue load limit $P_u$	1.14 kN
Calculation factor - $Y_2$	0.57
Calculation factor - $k_r$	0.1
Calculation factor - $Y_0$	0.26
Calculation factor - $Y_1$	
Fatigue load limit - $P_u$	1 kN
Calculation factor - $k_a$	1.6
Basic static load rating $C_0$	26.5 kN
Basic static load rating - $C_0$	24.5 kN