



7307 BECBM Bearing 2D drawings and 3D CAD models

## 35 mm x 80 mm x 21 mm SKF 7307 BECBM angular contact ball bearings

Bearing No. 7307 BECBM

Size	80x35x21 mm
Bore Diameter	80 mm
Outer Diameter	35 mm
Width	21 mm
d	35 mm
D	80 mm
B	21 mm
d <sub>1</sub>	52.65 mm
d <sub>2</sub>	43.62 mm
D <sub>1</sub>	63.45 mm
a	35 mm
r <sub>1,2</sub> - min.	1.5 mm
r <sub>3,4</sub> - min.	1 mm
d <sub>a</sub> - min.	44 mm
D <sub>a</sub> - max.	71 mm
D <sub>b</sub> - max.	74.4 mm
r <sub>a</sub> - max.	1.5 mm
r <sub>b</sub> - max.	1 mm
Basic dynamic load rating - C	41.5 kN
Basic static load rating - C <sub>0</sub>	26.5 kN
Fatigue load limit - P <sub>u</sub>	1.1 kN
Reference speed	11000 r/min
Limiting speed	11000 r/min
Calculation factor - k <sub>r</sub>	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	0.49
EAN	7316577091437
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



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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
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	<a href="http://www.skf.com">http://www.skf.com</a>
Manufacturer Item Number	7307 BECBM
Weight / LBS	1.069
Outside Diameter	3.15 Inch   80 Millimeter
Width	0.827 Inch   21 Millimeter
Bore	1.378 Inch   35 Millimeter
bore diameter:	35 mm
radial static load capacity:	26.5 kN
outside diameter:	80 mm
cage material:	Brass
overall width:	21 mm
outer ring width:	21 mm
contact angle:	40 °
maximum rpm:	11000 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:	41.5 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