



# SNR BEARING CORP.OF AMERICA



70 mm x 150 mm x 35 mm skf 7314 BEGAY  
Single row angular contact ball bearings

Bearing No. 7314 BEGAY

7314 BEGAY Bearing 2D drawings and 3D CAD models

Size	150x70x35 mm
Bore Diameter	150 mm
Outer Diameter	70 mm
Width	35 mm
d	70 mm
D	150 mm
B	35 mm
d <sub>1</sub>	101.1 mm
d <sub>2</sub>	84.4 mm
D <sub>1</sub>	121.5 mm
a	64 mm
r <sub>1,2</sub> - min.	2.1 mm
r <sub>3,4</sub> - min.	1.1 mm
d <sub>a</sub> - min.	82 mm
D <sub>a</sub> - max.	138 mm
D <sub>b</sub> - max.	143 mm
r <sub>a</sub> - max.	2 mm
r <sub>b</sub> - max.	1 mm
Basic dynamic load rating - C	119 kN
Basic static load rating - C <sub>0</sub>	90 kN
Fatigue load limit - P <sub>u</sub>	3.6 kN
Reference speed	5300 r/min
Limiting speed	5300 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	2.67
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	C0-Medium
Number of Bearings	1 (Single)
Preload	Light
Mounting Arrangement	Universal
Inch - Metric	Metric



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Long Description	70MM Bore; 150MM Outside Diameter; 35MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3   ISO P6; No Filling Slot; No Snap Ring
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	7314 BEGAY
Weight / LBS	5.878
Bore	2.756 Inch   70 Millimeter
Outside Diameter	5.906 Inch   150 Millimeter
Width	1.378 Inch   35 Millimeter
bore diameter:	70 mm
radial static load capacity:	90 kN
outside diameter:	150 mm
cage material:	Brass
overall width:	35 mm
outer ring width:	35 mm
contact angle:	40 °
maximum rpm:	5300 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:	2 mm
radial dynamic load capacity:	119 kN



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series:	73
$d_1$	101.1 mm
$d_2$	84.4 mm
$D_1$	121.5 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1.1 mm
$d_a$ min.	82 mm
$D_a$ max.	138 mm
$D_b$ max.	143 mm
$r_a$ max.	2 mm
$r_b$ max.	1 mm
Basic dynamic load rating C	119 kN
Basic static load rating $C_0$	90 kN
Fatigue load limit $P_u$	3.65 kN
Calculation factor A	0.145
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	2.65 kg