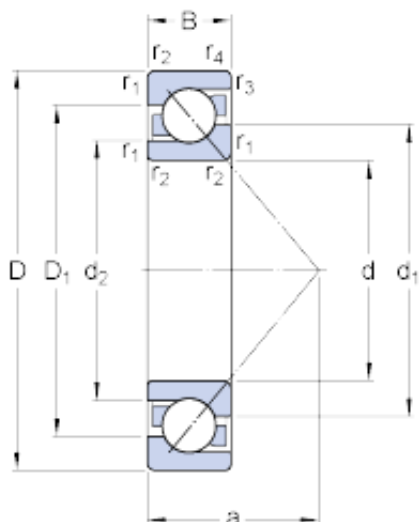




# NACHI BEARINGS TRAINING INDUSTRY



70 mm x 150 mm x 35 mm SKF 7314 BECBY  
angular contact ball bearings

Bearing No. 7314 BECBY

7314 BECBY 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



## NACHI BEARINGS TRAINING INDUSTRY

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
EAN	7316576634536
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	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
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	7314 BECBY
Weight / LBS	5.878
Width	1.378 Inch   35 Millimeter
Bore	2.756 Inch   70 Millimeter
Outside Diameter	5.906 Inch   150 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



## NACHI BEARINGS TRAINING INDUSTRY

radial dynamic load capacity:	119 kN
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	127 kN
Basic static load rating $C_0$	98 kN
Fatigue load limit $P_u$	3.9 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