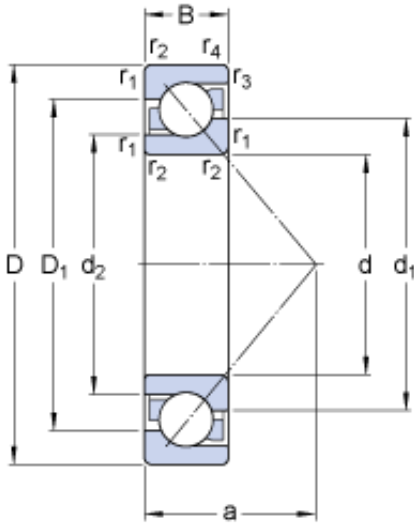




HMSA BEARING MANUFACTURING LIMITED



7314 BECBM Bearing 2D drawings and 3D CAD models

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

Bearing No. 7314 BECBM

Size	150x70x35 mm
Bore Diameter	150 mm
Outer Diameter	70 mm
Width	35 mm
d	70 mm
D	150 mm
B	35 mm
d ₁	101.1 mm
d ₂	84.4 mm
D ₁	121.5 mm
a	64 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
Reference speed	5600 r/min
Limiting speed	5600 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	2.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	2.83
EAN	7316577065810
Product Group	B04270
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	http://www.skf.com
Manufacturer Item Number	7314 BECBM
Weight / LBS	6.23
Width	1.378 Inch 35 Millimeter
Outside Diameter	5.906 Inch 150 Millimeter
Bore	2.756 Inch 70 Millimeter
bore diameter:	70 mm
radial static load capacity:	98 kN
outside diameter:	150 mm
cage material:	Brass
overall width:	35 mm
outer ring width:	35 mm
contact angle:	40 °
maximum rpm:	5600 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



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radial dynamic load capacity:	127 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