



GARLOCK BEARINGS LTD



7314 BEP Bearing 2D drawings and 3D CAD models

70 mm x 150 mm x 35 mm SKF 7314 BEP Angular Contact Ball Bearings

Bearing No. 7314 BEP

Category	Angular Contact Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight	2.55
EAN	7316576634543
Product Group	B00308
Enclosure	Open
Flush Ground	No
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	Polymer
Contact Angle	40 Degree
Internal Clearance	C0-Medium
Number of Bearings	1 (Single)
Inch - Metric	Metric
Long Description	70MM Bore; 150MM Outside Diameter; 35MM Width; Open; No Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3 ISO P6; No Filling Slot; No Snap Ring



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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 BEP
Weight / LBS	5.613
B	1.378 Inch 35 Millimeter
d	2.756 Inch 70 Millimeter
D	5.906 Inch 150 Millimeter
bore diameter:	70 mm
radial static load capacity:	90 kN
outside diameter:	150 mm
cage material:	Nylon
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:	Not Rated
closure type:	Open
fillet radius:	2 mm
radial dynamic load capacity:	119 kN
series:	73
d	70 mm
D	150 mm
B	35 mm
d ₁	101.1 mm



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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	119 kN
Basic static load rating C_0	90 kN
Fatigue load limit P_u	3.65 kN
Reference speed	5600 r/min
Limiting speed	5300 r/min
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