



Bearing No. 7310 BEP

a	47 mm
d	50 mm
D	110 mm
B	27 mm
Noun	Bearing
Bore	1.969 Inch 50 Millimeter
Width	1.063 Inch 27 Millimeter
UNSPSC	31171531
series:	73
Category	Angular Contact Ball Bearing
Enclosure	Open
Snap Ring	No
Size (mm)	110x50x27
Inventory	0.0
Width (mm)	27
Weight / LBS	2.288
maximum rpm:	7500 RPM
Flush Ground	No
Mass bearing	1.1 kg
Contact Angle	40 Degree
Cage Material	Polymer
closure type:	Open
Product Group	B00308
Inch - Metric	Metric
d ₁	73.8 mm
d ₂	61.13 mm
D ₁	88.8 mm

Bearing number	7310 BEP
Keyword String	Angular Contact
fillet radius:	2 mm
contact angle:	40 °
overall width:	27 mm
cage material:	Nylon
bore diameter:	50 mm
Limiting speed	7500 r/min
finish/coating:	Uncoated
Rolling Element	Ball Bearing
Reference speed	7500 r/min
Precision Class	ABEC 3 ISO P6
Outside Diameter	4.331 Inch 110 Millimeter
Manufacturer URL	http://www.skf.com
Long Description	50MM Bore; 110MM Outside Diameter; 27MM Width; Open; No Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3 ISO P6; No Filling Slot; No Snap Ring
outer ring width:	27 mm
outside diameter:	110 mm
precision rating:	Not Rated
Manufacturer Name	SKF
Weight / Kilogram	1.04
Number of Bearings	1 (Single)
Internal Clearance	C0-Medium
d _a min.	61 mm
Bore Diameter (mm)	110
D _a max.	99 mm
D _b max.	104 mm
r _a max.	2 mm

r_b max.	1 mm
Outer Diameter (mm)	50
internal clearance:	C0
$r_{1,2}$ min.	2 mm
Calculation factor A	0.0418
Calculation factor e	1.14
Calculation factor X	0.57
$r_{3,4}$ min.	1 mm
Minimum Buy Quantity	N/A
D_a - max.	99 mm
r_b - max.	1 mm
r_a - max.	2 mm
D_b - max.	104 mm
d_a - min.	61 mm
d_2 ?	61.13 mm
D_1 ?	88.8 mm
d_1 ?	73.8 mm
row type & fill slot:	Single-Row Non-Fill Slot
Calculation factor - X	0.35
Calculation factor - e	1.14
Harmonized Tariff Code	8482.10.50.28
$r_{1,2}$ - min.	2 mm
$r_{3,4}$ - min.	1 mm
Number of Rows of Balls	Single Row
Manufacturer Item Number	7310 BEP
Basic dynamic load rating C	68.9 kN
radial static load capacity:	47.5 kN
Basic dynamic load rating - C	68.9 kN
radial dynamic load capacity:	68.9 kN

Maximum Capacity / Filling Slot	No
Calculation factor Y_1	0.55
Calculation factor Y_2	0.93
Calculation factor k_r	0.1
Fatigue load limit P_u	2 kN
Calculation factor Y_0	0.52
Fatigue load limit - P_u	2 kN
Calculation factor - Y_2	0.57
Calculation factor - Y_1	
Calculation factor - k_a	1.6
Calculation factor - Y_0	0.26
Calculation factor - k_r	0.1
Basic static load rating C_0	47.5 kN
Basic static load rating - C_0	47.5 kN