



Bearing No. 7204 BEP

a	21 mm
d	20 mm
D	47 mm
B	14 mm
Noun	Bearing
Bore	0.787 Inch 20 Millimeter
Width	0.551 Inch 14 Millimeter
UNSPSC	31171531
series:	72
Category	Angular Contact Ball Bearing
Enclosure	Open
Snap Ring	No
Size (mm)	47x20x14
Inventory	0.0
Width (mm)	14
Weight / LBS	0.234
maximum rpm:	18000 RPM
Flush Ground	No
Mass bearing	0.11 kg
Contact Angle	40 Degree
Cage Material	Polymer
closure type:	Open
Product Group	B00308
Inch - Metric	Metric
d ₁	30.8 mm
d ₂	25.87 mm
D ₁	37 mm

Bearing number	7204 BEP
Keyword String	Angular Contact
fillet radius:	1 mm
contact angle:	40 °
overall width:	14 mm
cage material:	Nylon
bore diameter:	20 mm
Limiting speed	18000 r/min
finish/coating:	Uncoated
Reference speed	18000 r/min
Rolling Element	Ball Bearing
Precision Class	ABEC 3 ISO P6
Outside Diameter	1.85 Inch 47 Millimeter
Manufacturer URL	http://www.skf.com
Long Description	20MM Bore; 47MM Outside Diameter; 14MM Width; Open; No Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3 ISO P6; No Filling Slot; No Snap Ring
outer ring width:	14 mm
outside diameter:	47 mm
precision rating:	ABEC 3 (ISO Class 6)
Manufacturer Name	SKF
Weight / Kilogram	0.108
Number of Bearings	1 (Single)
Internal Clearance	C0-Medium
d _a min.	25.6 mm
Bore Diameter (mm)	47
D _a max.	41.4 mm
D _b max.	42.8 mm
r _a max.	1 mm

r_b max.	0.6 mm
Outer Diameter (mm)	20
internal clearance:	C0
$r_{1,2}$ min.	1 mm
Calculation factor A	0.00113
Calculation factor e	1.14
Calculation factor X	0.57
$r_{3,4}$ min.	0.6 mm
Minimum Buy Quantity	N/A
D_a - max.	41.4 mm
r_b - max.	0.6 mm
r_a - max.	1 mm
D_b - max.	42.8 mm
d_a - min.	25.6 mm
d_2 ?	25.87 mm
D_1 ?	37 mm
d_1 ?	30.8 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.	1 mm
$r_{3,4}$ - min.	0.6 mm
Number of Rows of Balls	Single Row
Manufacturer Item Number	7204 BEP
Basic dynamic load rating C	13.3 kN
radial static load capacity:	7.65 kN
Basic dynamic load rating - C	13.3 kN
radial dynamic load capacity:	13.3 kN

Maximum Capacity / Filling Slot	No
Calculation factor Y_1	0.55
Calculation factor Y_2	0.93
Calculation factor k_r	0.095
Fatigue load limit P_u	0.325 kN
Calculation factor Y_0	0.52
Fatigue load limit - P_u	0.325 kN
Calculation factor - Y_2	0.57
Calculation factor - Y_1	
Calculation factor - k_a	1.4
Calculation factor - Y_0	0.26
Calculation factor - k_r	0.095
Basic static load rating C_0	7.65 kN
Basic static load rating - C_0	7.6 kN