



Bearing No. 7204 BECBJ

D	47 mm
d	20 mm
B	14 mm
a	21 mm
Bore	0.787 Inch   20 Millimeter
Noun	Bearing
Width	0.551 Inch   14 Millimeter
UNSPSC	31171531
Category	Angular Contact Ball Bearing
Inventory	0.0
Snap Ring	No
Enclosure	Open
Size (mm)	47x20x14
Width (mm)	14
Flush Ground	Yes
Mass bearing	0.11 kg
Inch - Metric	Metric
Contact Angle	40 Degree
Cage Material	Steel
D <sub>1</sub>	37 mm
d <sub>2</sub>	25.87 mm
d <sub>1</sub>	30.8 mm
Product Group	B00308
Other Features	Normal Axial Internal Clearance
Keyword String	Angular Contact
Bearing number	7204 BECBJ
Limiting speed	18000 r/min

Reference speed	18000 r/min
Rolling Element	Ball Bearing
Precision Class	ABEC 1   ISO P0
Outside Diameter	1.85 Inch   47 Millimeter
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Long Description	20MM Bore; 47MM Outside Diameter; 14MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 1   ISO P0; No Filling Slot; No Snap Ring; CB; Steel Cage; 40 Degree; 1 (Single); Universa
Manufacturer Name	SKF
Weight / Kilogram	0.106
Internal Clearance	CB
d <sub>a</sub> min.	25.6 mm
D <sub>a</sub> max.	41.4 mm
Bore Diameter (mm)	47
D <sub>b</sub> max.	42.8 mm
r <sub>a</sub> max.	1 mm
r <sub>b</sub> max.	0.6 mm
Number of Bearings	1 (Single)
Outer Diameter (mm)	20
D <sub>b</sub> - max.	42.8 mm
r <sub>1,2</sub> min.	1 mm
d <sub>a</sub> - min.	25.6 mm
D <sub>a</sub> - max.	41.4 mm
r <sub>3,4</sub> min.	0.6 mm
Mounting Arrangement	Universal
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
Minimum Buy Quantity	N/A

Calculation factor A	0.00113
Calculation factor e	1.14
Calculation factor X	0.57
$d_1$ ?	30.8 mm
$D_1$ ?	37 mm
$d_2$ ?	25.87 mm
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
Calculation factor - X	0.35
Number of Rows of Balls	Single Row
Basic dynamic load rating C	14.3 kN
Basic dynamic load rating - C	13.3 kN
Maximum Capacity / Filling Slot	No
Fatigue load limit $P_u$	0.345 kN
Calculation factor $k_r$	0.095
Calculation factor $Y_0$	0.52
Calculation factor $Y_2$	0.93
Calculation factor $Y_1$	0.55
Fatigue load limit - $P_u$	0.325 kN
Calculation factor - $k_r$	0.095
Calculation factor - $k_a$	1.4
Calculation factor - $Y_2$	0.57
Calculation factor - $Y_1$	
Calculation factor - $Y_0$	0.26
Basic static load rating $C_0$	8.15 kN
Basic static load rating - $C_0$	7.6 kN

