



# AMERICAN BEARING MFG.CORP.



20 mm x 52 mm x 15 mm SKF 7304 BEGBP  
angular contact ball bearings

Bearing No. 7304 BEGBP

7304 BEGBP Bearing 2D drawings and 3D CAD models

Size	52x20x15 mm
Bore Diameter	52 mm
Outer Diameter	20 mm
Width	15 mm
d	20 mm
D	52 mm
B	15 mm
d <sub>1</sub>	33.15 mm
d <sub>2</sub>	26.75 mm
D <sub>1</sub>	40.5 mm
a	22.8 mm
r <sub>1,2</sub> - min.	1.1 mm
r <sub>3,4</sub> - min.	0.6 mm
d <sub>a</sub> - min.	27 mm
D <sub>a</sub> - max.	45 mm
D <sub>b</sub> - max.	47.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
Basic dynamic load rating - C	19 kN
Basic static load rating - C <sub>0</sub>	10 kN
Fatigue load limit - P <sub>u</sub>	0.425 kN
Reference speed	18000 r/min
Limiting speed	18000 r/min
Calculation factor - k <sub>r</sub>	0.1



## AMERICAN BEARING MFG.CORP.

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	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.143
Product Group	B00308
Enclosure	Open
Flush Ground	Yes
Rolling Element	Ball Bearing
Number of Rows of Balls	Single Row
Precision Class	ABEC 1   ISO P0
Maximum Capacity / Filling Slot	No
Snap Ring	No
Cage Material	Polyamide
Contact Angle	40 Degree
Internal Clearance	C0-Medium
Number of Bearings	1 (Single)
Preload	Medium
Mounting Arrangement	Universal
Inch - Metric	Metric



## AMERICAN BEARING MFG.CORP.

Long Description	20MM Bore; 52MM Outside Diameter; 15MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 1   ISO P0; No Filling Slot; No Snap Ring; C0-Medium; Polyamide Cage; 40 Degree; 1 (Single
Category	Angular Contact Ball Bearing
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Angular Contact
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Manufacturer Item Number	7304 BEGBP
Width	0.591 Inch   15 Millimeter
Bore	0.787 Inch   20 Millimeter
Outside Diameter	2.047 Inch   52 Millimeter
bore diameter:	20 mm
maximum temperature:	257 ° F
outside diameter:	52 mm
cage material:	Polyamide 66
overall width:	15 mm
maximum rpm:	18000 rpm
contact angle:	40 °
finish/coating:	Uncoated
row type & fill slot:	Single-Row Non-Fill Slot
fillet radius:	1.1 mm
bore type:	Round
series:	7300
closure type:	Open
weight:	0.31 lb
bearing material:	Steel



## AMERICAN BEARING MFG.CORP.

manufacturer product page:	<a href="#">Click here</a>
radial dynamic load capacity:	19 kN
manufacturer upc number:	7316572021743
radial static load capacity:	10 kN
$d_1$	33.15 mm
$d_2$	26.75 mm
$D_1$	40.5 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
$d_a$ min.	27 mm
$D_a$ max.	45 mm
$D_b$ max.	47.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
Basic dynamic load rating C	19 kN
Basic static load rating $C_0$	10 kN
Fatigue load limit $P_u$	0.425 kN
Calculation factor A	0.00191
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	0.14 kg