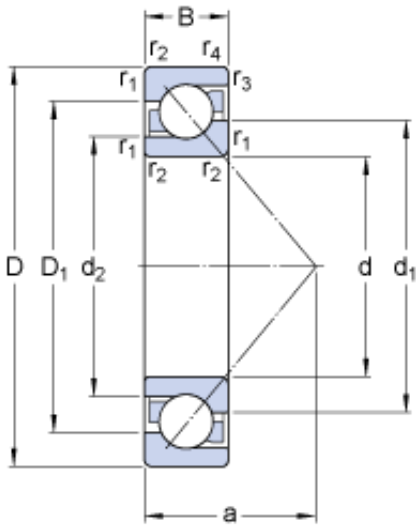




## BEARING FORGE OF AMERICA CORP.



7209 bep Bearing 2D drawings and 3D CAD models

45 mm x 85 mm x 19 mm skf 7209 bep bearing

Bearing No. 7209 bep

Size	85x45x19 mm
Bore Diameter	85 mm
Outer Diameter	45 mm
Width	19 mm
d	45 mm
D	85 mm
B	19 mm
d <sub>1</sub>	60.85 mm
d <sub>2</sub>	52.68 mm
D <sub>1</sub>	70.15 mm
a	37 mm
r <sub>1,2</sub> - min.	1.1 mm
r <sub>3,4</sub> - min.	0.6 mm
d <sub>a</sub> - min.	52 mm
D <sub>a</sub> - max.	78 mm
D <sub>b</sub> - max.	80.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
Basic dynamic load rating - C	35.8 kN
Basic static load rating - C <sub>0</sub>	26 kN
Fatigue load limit - P <sub>u</sub>	1.1 kN
Reference speed	9000 r/min
Limiting speed	9000 r/min
Calculation factor - k <sub>r</sub>	0.095
Calculation factor - k <sub>a</sub>	1.4



## BEARING FORGE OF AMERICA CORP.

Calculation factor - e	1.14
Calculation factor - X	0.57
Calculation factor - Y <sub>0</sub>	0.52
Calculation factor - Y <sub>1</sub>	0.55
Calculation factor - Y <sub>2</sub>	0.93
Calculation factor - X	0.35
Calculation factor - Y <sub>0</sub>	0.26
Calculation factor - Y <sub>1</sub>	
Calculation factor - Y <sub>2</sub>	0.57
Category	Angular Contact Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.42
EAN	7316576633119
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	45MM Bore; 85MM Outside Diameter; 19MM



## BEARING FORGE OF AMERICA CORP.

	Width; Open; No Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3   ISO P6; No Filling Slot; No Snap Ring
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	7209 BEP
Weight / LBS	0.917
Outside Diameter	3.346 Inch   85 Millimeter
Bore	1.772 Inch   45 Millimeter
Width	0.748 Inch   19 Millimeter
bore diameter:	45 mm
radial static load capacity:	26 kN
outside diameter:	85 mm
cage material:	Nylon
overall width:	19 mm
outer ring width:	19 mm
contact angle:	40 °
maximum rpm:	9000 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:	1 mm
radial dynamic load capacity:	35.8 kN
series:	72



## BEARING FORGE OF AMERICA CORP.

$d_1$	60.85 mm
$d_2$	52.68 mm
$D_1$	70.15 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
$d_a$ min.	52 mm
$D_a$ max.	78 mm
$D_b$ max.	80.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
Basic dynamic load rating C	35.8 kN
Basic static load rating $C_0$	26 kN
Fatigue load limit $P_u$	1.12 kN
Calculation factor A	0.012
Calculation factor $k_r$	0.095
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	0.42 kg