



**Bearing No. 7207 BEP**

a	31 mm
d	35 mm
D	72 mm
B	17 mm
Noun	Bearing
Bore	1.378 Inch   35 Millimeter
Width	0.669 Inch   17 Millimeter
UNSPSC	31171531
series:	72
Category	Angular Contact Ball Bearing
Enclosure	Open
Snap Ring	No
Size (mm)	72x35x17
Inventory	5.0
Width (mm)	17
Weight / LBS	0.599
maximum rpm:	11000 RPM
Flush Ground	No
Mass bearing	0.28 kg
Contact Angle	40 Degree
Cage Material	Polymer
closure type:	Open
Product Group	B00308
Inch - Metric	Metric
d <sub>1</sub>	49.65 mm
d <sub>2</sub>	41.96 mm
D <sub>1</sub>	58.25 mm

Bearing number	7207 BEP
Keyword String	Angular Contact
fillet radius:	1 mm
contact angle:	40 °
overall width:	17 mm
cage material:	Nylon
bore diameter:	35 mm
Limiting speed	11000 r/min
finish/coating:	Uncoated
Reference speed	11000 r/min
Rolling Element	Ball Bearing
Precision Class	ABEC 3   ISO P6
Outside Diameter	2.835 Inch   72 Millimeter
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Long Description	35MM Bore; 72MM Outside Diameter; 17MM Width; Open; No Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3   ISO P6; No Filling Slot; No Snap Ring
outer ring width:	17 mm
outside diameter:	72 mm
precision rating:	ABEC 3 (ISO Class 6)
Manufacturer Name	SKF
Weight / Kilogram	0.27
Number of Bearings	1 (Single)
Internal Clearance	C0-Medium
d <sub>a</sub> min.	42 mm
Bore Diameter (mm)	72
D <sub>a</sub> max.	65 mm
D <sub>b</sub> max.	67.8 mm
r <sub>a</sub> max.	1 mm

$r_b$ max.	0.6 mm
Outer Diameter (mm)	35
internal clearance:	C0
$r_{1,2}$ min.	1.1 mm
Calculation factor A	0.00674
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.	65 mm
$r_b$ - max.	0.6 mm
$r_a$ - max.	1 mm
$D_b$ - max.	67.8 mm
$d_a$ - min.	42 mm
$d_2$ ?	41.96 mm
$D_1$ ?	58.25 mm
$d_1$ ?	49.65 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.	1.1 mm
$r_{3,4}$ - min.	0.6 mm
Number of Rows of Balls	Single Row
Manufacturer Item Number	7207 BEP
Basic dynamic load rating C	29.1 kN
radial static load capacity:	19 kN
Basic dynamic load rating - C	29.1 kN
radial dynamic load capacity:	29.1 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 $P_u$	0.815 kN
Calculation factor $Y_0$	0.52
Fatigue load limit - $P_u$	0.815 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 $C_0$	19 kN
Basic static load rating - $C_0$	19 kN