



**Bearing No. 7209 BEGAPH**

D	85 mm
d	45 mm
B	19 mm
a	37 mm
Bore	1.772 Inch   45 Millimeter
Noun	Bearing
Width	0.748 Inch   19 Millimeter
UNSPSC	31171531
Preload	Light
Category	Angular Contact Ball Bearing
Inventory	0.0
Enclosure	Open
Size (mm)	85x45x19
Snap Ring	No
Width (mm)	19
Flush Ground	Yes
Mass bearing	0.42 kg
Contact Angle	40 Degree
Cage Material	PEEK
Inch - Metric	Metric
D <sub>1</sub>	70.15 mm
d <sub>2</sub>	52.68 mm
d <sub>1</sub>	60.85 mm
Product Group	B00308
Keyword String	Angular Contact
Bearing number	7209 BEGAPH
Limiting speed	10000 r/min

Reference speed	10000 r/min
Rolling Element	Ball Bearing
Precision Class	ABEC 1   ISO P0
Outside Diameter	3.346 Inch   85 Millimeter
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Long Description	45MM Bore; 85MM Outside Diameter; 19MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 1   ISO P0; No Filling Slot; No Snap Ring; C0-Medium; PEEK Cage; 40 Degree; 1 (Single); Li
Manufacturer Name	SKF
Weight / Kilogram	0
Internal Clearance	C0-Medium
d <sub>a</sub> min.	52 mm
D <sub>a</sub> max.	78 mm
Bore Diameter (mm)	85
D <sub>b</sub> max.	80.8 mm
r <sub>a</sub> max.	1 mm
r <sub>b</sub> max.	0.6 mm
Number of Bearings	1 (Single)
Outer Diameter (mm)	45
Mounting Arrangement	Universal
r <sub>1,2</sub> min.	1.1 mm
d <sub>a</sub> - min.	52 mm
D <sub>a</sub> - max.	78 mm
r <sub>3,4</sub> min.	0.6 mm
D <sub>b</sub> - max.	80.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm

Minimum Buy Quantity	N/A
Calculation factor A	0.012
Calculation factor e	1.14
Calculation factor X	0.57
$d_1$ ?	60.85 mm
$D_1$ ?	70.15 mm
$d_2$ ?	52.68 mm
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
Calculation factor - X	0.35
Number of Rows of Balls	Single Row
Basic dynamic load rating C	38 kN
Basic dynamic load rating - C	38 kN
Maximum Capacity / Filling Slot	No
Fatigue load limit $P_u$	1.22 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 - $P_u$	1.2 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 $C_0$	28.5 kN

Basic static load rating - $C_0$	28.5 kN
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