



**Bearing No. 7409 BGBM**

D	120 mm
d	45 mm
B	29 mm
a	49.3 mm
Noun	Bearing
Bore	1.772 Inch   45 Millimeter
Width	1.142 Inch   29 Millimeter
UNSPSC	31171531
Preload	Medium
series:	74
Category	Angular Contact Ball Bearing
Size (mm)	120x45x29
Enclosure	Open
Snap Ring	No
Inventory	0.0
Width (mm)	29
Weight / LBS	3.812
Flush Ground	Yes
Mass bearing	1.55 kg
maximum rpm:	7500 RPM
Product Group	B00308
Inch - Metric	Metric
closure type:	Open
Contact Angle	40 Degree
Cage Material	Brass
D <sub>1</sub>	91.8 mm
d <sub>2</sub>	60.9 mm
d <sub>1</sub>	74.9 mm

cage material:	Brass
Keyword String	Angular Contact
overall width:	29 mm
contact angle:	40 °
fillet radius:	2 mm
bore diameter:	45 mm
Bearing number	7409 BGBM
Limiting speed	7500 r/min
finish/coating:	Uncoated
Rolling Element	Ball Bearing
Precision Class	ABEC 3   ISO P6
Reference speed	7000 r/min
Long Description	45MM Bore; 120MM Outside Diameter; 29MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3   ISO P6; No Filling Slot; No Snap Ring
Outside Diameter	4.724 Inch   120 Millimeter
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Weight / Kilogram	1.73
precision rating:	ABEC 3 (ISO Class 6)
outside diameter:	120 mm
outer ring width:	29 mm
Manufacturer Name	SKF
Bore Diameter (mm)	120
r <sub>b</sub> max.	2 mm
r <sub>a</sub> max.	2 mm
D <sub>b</sub> max.	107.7 mm
D <sub>a</sub> max.	110 mm
d <sub>a</sub> min.	55 mm

Number of Bearings	1 (Single)
Internal Clearance	C0-Medium
Outer Diameter (mm)	45
internal clearance:	C0
$D_a$ - max.	110 mm
Calculation factor A	0.0585
$r_{1,2}$ min.	2 mm
$d_a$ - min.	55 mm
Minimum Buy Quantity	N/A
Mounting Arrangement	Universal
$r_{3,4}$ min.	2 mm
$r_a$ - max.	2 mm
$r_b$ - max.	2 mm
Calculation factor X	0.57
Calculation factor e	1.14
$D_b$ - max.	107.7 mm
$d_1$ ?	74.9 mm
row type & fill slot:	Single-Row Non-Fill Slot
$D_1$ ?	91.8 mm
$d_2$ ?	60.9 mm
Harmonized Tariff Code	8482.10.50.28
Calculation factor - X	0.35
Calculation factor - e	1.14
$r_{1,2}$ - min.	2 mm
$r_{3,4}$ - min.	2 mm
Number of Rows of Balls	Single Row
Manufacturer Item Number	7409 BGBM
Basic dynamic load rating C	85.2 kN
radial static load capacity:	55 kN
radial dynamic load	85.2 kN

capacity:	
Basic dynamic load rating - C	85.2 kN
Maximum Capacity / Filling Slot	No
Calculation factor $Y_0$	0.52
Calculation factor $Y_2$	0.93
Calculation factor $Y_1$	0.55
Calculation factor $k_r$	0.1
Fatigue load limit $P_u$	2.36 kN
Fatigue load limit - $P_u$	2.4 kN
Calculation factor - $k_a$	1.6
Calculation factor - $k_r$	0.1
Calculation factor - $Y_1$	
Calculation factor - $Y_2$	0.57
Calculation factor - $Y_0$	0.26
Basic static load rating $C_0$	55 kN
Basic static load rating - $C_0$	55 kN