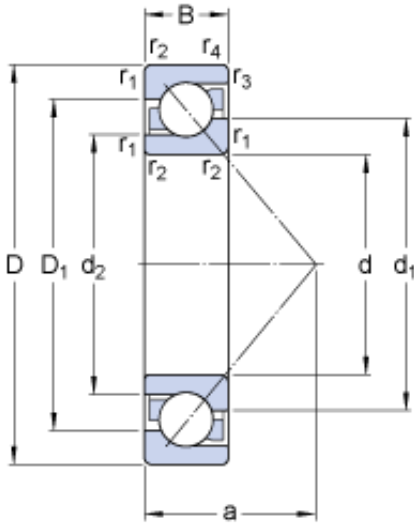




# NTN PRECISION AXLE CORP.



7409 BGM Bearing 2D drawings and 3D CAD models

## 45 mm x 120 mm x 29 mm SKF 7409 BGM angular contact ball bearings

Bearing No. 7409 BGM

Size	120x45x29 mm
Bore Diameter	120 mm
Outer Diameter	45 mm
Width	29 mm
d	45 mm
D	120 mm
B	29 mm
d <sub>1</sub>	74.9 mm
d <sub>2</sub>	60.9 mm
D <sub>1</sub>	91.8 mm
a	49.3 mm
r <sub>1,2</sub> - min.	2 mm
r <sub>3,4</sub> - min.	2 mm
d <sub>a</sub> - min.	55 mm
D <sub>a</sub> - max.	110 mm
D <sub>b</sub> - max.	107.7 mm
r <sub>a</sub> - max.	2 mm
r <sub>b</sub> - max.	2 mm
Basic dynamic load rating - C	85.2 kN
Basic static load rating - C <sub>0</sub>	55 kN
Fatigue load limit - P <sub>u</sub>	2.4 kN
Reference speed	7000 r/min
Limiting speed	7500 r/min
Calculation factor - k <sub>r</sub>	0.1



## NTN PRECISION AXLE 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	1.73
EAN	7316570028522
Product Group	B00308
Enclosure	Open
Flush Ground	Yes
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	Brass
Contact Angle	40 Degree
Internal Clearance	C0-Medium
Number of Bearings	1 (Single)
Mounting Arrangement	Universal
Inch - Metric	Metric



## NTN PRECISION AXLE CORP.

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
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	7409 BGM
Weight / LBS	3.812
Outside Diameter	4.724 Inch   120 Millimeter
Width	1.142 Inch   29 Millimeter
Bore	1.772 Inch   45 Millimeter
bore diameter:	45 mm
radial static load capacity:	55 kN
outside diameter:	120 mm
cage material:	Brass
overall width:	29 mm
outer ring width:	29 mm
contact angle:	40 °
maximum rpm:	7500 RPM
row type & fill slot:	Single-Row Non-Fill Slot
finish/coating:	Uncoated
internal clearance:	C0
precision rating:	ABEC 3 (ISO Class 6)
closure type:	Open
fillet radius:	2 mm
radial dynamic load capacity:	85.2 kN



## NTN PRECISION AXLE CORP.

series:	74
$d_1$	74.9 mm
$d_2$	60.9 mm
$D_1$	91.8 mm
$r_{1,2}$ min.	2 mm
$r_{3,4}$ min.	2 mm
$d_a$ min.	55 mm
$D_a$ max.	110 mm
$D_b$ max.	107.7 mm
$r_a$ max.	2 mm
$r_b$ max.	2 mm
Basic dynamic load rating C	85.2 kN
Basic static load rating $C_0$	55 kN
Fatigue load limit $P_u$	2.36 kN
Calculation factor A	0.0585
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	1.55 kg