



# SNR BEARING CORP.OF AMERICA



200 mm x 310 mm x 51 mm skf 7040 BGM  
Single row angular contact ball bearings

Bearing No. 7040 BGM

7040 BGM Bearing 2D drawings and 3D CAD models

Size	310x200x51 mm
Bore Diameter	310 mm
Outer Diameter	200 mm
Width	51 mm
d	200 mm
D	310 mm
B	51 mm
d <sub>1</sub>	243.6 mm
d <sub>2</sub>	224 mm
D <sub>1</sub>	269.8 mm
a	145 mm
r <sub>1,2</sub> - min.	2.1 mm
r <sub>3,4</sub> - min.	1.1 mm
d <sub>a</sub> - min.	234 mm
D <sub>a</sub> - max.	285 mm
D <sub>b</sub> - max.	333 mm
r <sub>a</sub> - max.	2.5 mm
r <sub>b</sub> - max.	1.1 mm
Basic dynamic load rating - C	225 kN
Basic static load rating - C <sub>0</sub>	290 kN
Fatigue load limit - P <sub>u</sub>	7.8 kN
Reference speed	2200 r/min
Limiting speed	2200 r/min
Calculation factor - k <sub>r</sub>	0.083



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Calculation factor - $k_a$	0.9
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	13.84
Product Group	B00308
Enclosure	Open
Flush Ground	Yes
Rolling Element	Ball Bearing
Number of Rows of Balls	Single Row
Precision Class	ABEC 1   ISO P0
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
Long Description	200MM Bore; 310MM



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	Outside Diameter; 51MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 1   ISO P0; No Filling Slot; No Snap Ring; C0-Medium; Brass Cage; 40 Degree; 1 (Single);
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	7040 BGM
Width	2.008 Inch   51 Millimeter
Outside Diameter	12.205 Inch   310 Millimeter
Bore	7.874 Inch   200 Millimeter
$d_1$	243.6 mm
$d_2$	224 mm
$D_1$	269.8 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1.1 mm
$d_a$ min.	234 mm
$D_a$ max.	285 mm
$D_b$ max.	333 mm
$r_a$ max.	2.5 mm
$r_b$ max.	1.1 mm
Basic dynamic load rating C	225 kN
Basic static load rating $C_0$	290 kN
Fatigue load limit $P_u$	7.8 kN
Calculation factor A	1.37
Calculation factor $k_r$	0.083
Calculation factor e	1.14



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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	18 kg