



# EYA Bearing Roller Industry Co.,Ltd



7311 BEGAP Bearing 2D drawings and 3D CAD models

## SKF 7311 BEGAP angular contact ball bearings

Bearing No. 7311 BEGAP

Size	120x55x29 mm
Bore Diameter	120 mm
Outer Diameter	55 mm
Width	29 mm
d	55 mm
D	120 mm
B	29 mm
d <sub>1</sub>	80.3 mm
d <sub>2</sub>	66.66 mm
D <sub>1</sub>	96.6 mm
a	51 mm
r <sub>1,2</sub> - min.	2 mm
r <sub>3,4</sub> - min.	1 mm
d <sub>a</sub> - min.	66 mm
D <sub>a</sub> - max.	109 mm
D <sub>b</sub> - max.	114 mm
r <sub>a</sub> - max.	2 mm
r <sub>b</sub> - max.	1 mm
Basic dynamic load rating - C	85 kN
Basic static load rating - C <sub>0</sub>	60 kN
Fatigue load limit - P <sub>u</sub>	2.6 kN
Reference speed	7000 r/min
Limiting speed	7000 r/min
Calculation factor - k <sub>r</sub>	0.1
Calculation factor - k <sub>a</sub>	1.6



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Calculation factor - e	1.14
Calculation factor - X	0.57
Calculation factor - Y <sub>0</sub>	0.52
Calculation factor - Y <sub>1</sub>	0.55
Calculation factor - Y <sub>2</sub>	0.93
Calculation factor - X	0.35
Calculation factor - Y <sub>0</sub>	0.26
Calculation factor - Y <sub>1</sub>	
Calculation factor - Y <sub>2</sub>	0.57
Category	Angular Contact Ball Bearings
Inventory	2.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	1.34
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	Polymer
Contact Angle	40 Degree
Internal Clearance	C0-Medium
Number of Bearings	1 (Single)
Preload	Light
Mounting Arrangement	Universal
Inch - Metric	Metric
Long Description	55MM Bore; 120MM



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	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	7311 BEGAP
Weight / LBS	2.95
Width	1.142 Inch   29 Millimeter
Outside Diameter	4.724 Inch   120 Millimeter
Bore	2.165 Inch   55 Millimeter
bore diameter:	55 mm
radial static load capacity:	60 kN
outside diameter:	120 mm
cage material:	Nylon
overall width:	29 mm
outer ring width:	29 mm
contact angle:	40 °
maximum rpm:	7000 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 kN



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series:	73
$d_1$	80.3 mm
$d_2$	66.66 mm
$D_1$	96.6 mm
$r_{1,2}$ min.	2 mm
$r_{3,4}$ min.	1 mm
$d_a$ min.	66 mm
$D_a$ max.	109 mm
$D_b$ max.	114 mm
$r_a$ max.	2 mm
$r_b$ max.	1 mm
Basic dynamic load rating C	85 kN
Basic static load rating $C_0$	60 kN
Fatigue load limit $P_u$	2.55 kN
Calculation factor A	0.0574
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	1.4 kg