



## AMERICAN NTN BEARING MFG.CORP.



6311 Bearing 2D drawings and 3D CAD models

Famous Brand SKF Ball Bearings 6311 6312 6313  
6314 6315 6316 6317 6318 6319 9320 6321 6322  
-2RS1 Z 2z RS for Electric Motor Use

Bearing No. 6311

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>	75.34 mm
D <sub>2</sub>	103.7 mm
r <sub>1,2</sub> - min.	2 mm
d <sub>a</sub> - min.	66 mm
D <sub>a</sub> - max.	109 mm
r <sub>a</sub> - max.	2 mm
Basic dynamic load rating - C	74.1 kN
Basic static load rating - C <sub>0</sub>	45 kN
Fatigue load limit - P <sub>u</sub>	1.9 kN
Reference speed	12000 r/min
Limiting speed	8000 r/min
Calculation factor - k <sub>r</sub>	0.03
Calculation factor - f <sub>0</sub>	13.1
Category	Single Row Ball Bearings
Inventory	1.0
Manufacturer Name	SKF



## AMERICAN NTN BEARING MFG.CORP.

Minimum Buy Quantity	N/A
Weight / Kilogram	1.39
EAN	7316577062031
Product Group	B00308
Enclosure	Open
Precision Class	ABEC 1   ISO P0
Maximum Capacity / Filling Slot	No
Rolling Element	Ball Bearing
Snap Ring	No
Internal Special Features	No
Cage Material	Steel
Internal Clearance	C0-Medium
Inch - Metric	Metric
Long Description	55MM Bore; 120MM Outside Diameter; 29MM Outer Race Diameter; Open; Ball Bearing; ABEC 1   ISO P0; No Filling Slot; No Snap Ring; No Internal Special Features
Category	Single Row Ball Bearing
UNSPSC	31171504
Harmonized Tariff Code	8482.10.50.68
Noun	Bearing
Keyword String	Ball
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Manufacturer Item Number	6311
Weight / LBS	3.06
Outer Race Width	1.142 Inch   29 Millimeter
Bore	2.165 Inch   55 Millimeter
Outside Diameter	4.724 Inch   120 Millimeter
bore diameter:	55 mm
static load capacity:	45 kN



## AMERICAN NTN BEARING MFG.CORP.

outside diameter:	120 mm
precision rating:	ABEC 1 (ISO Class Normal)
overall width:	29 mm
finish/coating:	Uncoated
bore type:	Round
cage material:	Steel
closure type:	Open
outer ring width:	29 mm
row type & fill slot:	Single Row Non-Fill Slot
fillet radius:	2 mm
snap ring included:	Without Snap Ring
maximum rpm:	8000 RPM
internal clearance:	C0
series:	63
dynamic load capacity:	74.1 kN
$d_1$	75.34 mm
$D_2$	103.7 mm
$r_{1,2}$ min.	2 mm
$d_a$ min.	66 mm
$D_a$ max.	109 mm
$r_a$ max.	2 mm
Basic dynamic load rating C	74.1 kN
Basic static load rating $C_0$	45 kN
Fatigue load limit $P_u$	1.9 kN
Calculation factor $k_r$	0.03
Calculation factor $f_0$	13.1
Mass bearing	1.37 kg