



Timken BEARINGS INDUSTRY



55,000 mm x 120,000 mm x 29,000 mm NTN
6311ZNR deep groove ball bearings

Bearing No. 6311ZNR

6311ZNR Bearing 2D drawings and 3D CAD models

Size	55x120x29 mm
Bore Diameter	55,000 mm
Outer Diameter	120,000 mm
Width	29,000 mm
d	55,000 mm
D	120,000 mm
B	29,000 mm
C	29,000 mm
a min	3.86 mm
a max	4.06 mm
Ca min	6.58 mm
Ca max	6.88 mm
rs min	2 mm
rNs min	0.5 mm
D3 max	115.21 mm
b min	3.1 mm
b max	3.4 mm
r0 max	0.6 mm
D4 max	129.7 mm
f	2.82 mm
Snap ring reference	R120
Radial clearance class	CN
Mass	1.37 kg
Dynamic load, C	71.5 kN
Static load, C0	45 kN



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Fatigue limit load, Cu	2.05 kN
f ₀	13.2
Nlim (oil)	6,800 rpm
Nlim (grease)	5,800 rpm
Min operating temperature, T _{min}	-20 ° C
Max operating temperature, T _{max}	120 ° C
Characteristic cage frequency, FTF	0.38 Hz
Characteristic rolling element frequency, BSF	4.08 Hz
Characteristic outer ring frequency, BPF ₀	3.07 Hz
Characteristic inner ring frequency, BPF _I	4.93 Hz
d _{a min}	64 mm
D _{a max}	111 mm
r _{a max}	2 mm
r _{Na max}	0.5 mm
D _{b min}	131.5 mm
Category	Single Row Ball Bearings
Inventory	0.0
Manufacturer Name	NTN
Minimum Buy Quantity	N/A
Weight / Kilogram	1.382
EAN	4547359396348
Product Group	B00308
Enclosure	1 Metal Shield
Precision Class	ABEC 1 ISO P0
Maximum Capacity / Filling Slot	No
Rolling Element	Ball Bearing
Snap Ring	Yes



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Internal Special Features	No
Cage Material	Steel
Internal Clearance	C0-Medium
Inch - Metric	Metric
Long Description	55MM Bore; 120MM Outside Diameter; 29MM Outer Race Width; 1 Metal Shield; Ball Bearing; ABEC 1 ISO P0; No Filling Slot; Yes Snap Ring; No Internal Special Features; C0-Medium Internal Clearance; Ste
Other Features	Deep Groove With Snap Ring
Category	Single Row Ball Bearing
UNSPSC	31171504
Harmonized Tariff Code	8482.10.50.68
Noun	Bearing
Keyword String	Ball
Manufacturer URL	http://www.ntnamerica.com
Manufacturer Item Number	6311ZNR
Weight / LBS	3.04237
Outside Diameter	4.724 Inch 120 Millimeter
Inner Race Width	0 Inch 0 Millimeter
Bore	2.165 Inch 55 Millimeter
Outer Race Width	1.142 Inch 29 Millimeter
bore diameter:	55 mm
precision rating:	ISO Class 0
outside diameter:	120 mm
finish/coating:	Uncoated
overall width:	29 mm
bearing material:	High Carbon Chrome Steel
bore type:	Round



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cage material:	Steel
closure type:	Single Shield
inner ring width:	29 mm
row type & fill slot:	Single Row Non-Fill Slot
outer ring width:	29 mm
snap ring included:	With Snap Ring
maximum rpm (grease):	5800 rpm
internal clearance:	CN
maximum rpm (oil):	6800 rpm
operating temperature range:	-40 to 120 ° C
fillet radius:	2 mm
dynamic load capacity:	71500 N
manufacturer product page:	Click here
static load capacity:	45000 N