



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 |
| f0 | 13.2 |
| Nlim (oil) | 6,800 rpm |
| Nlim (grease) | 5,800 rpm |
| Min operating temperature, Tmin | -20 ° C |
| Max operating temperature, Tmax | 120 ° C |
| Characteristic cage frequency, FTF | 0.38 Hz |
| Characteristic rolling element frequency, BSF | 4.08 Hz |
| Characteristic outer ring frequency, BPF0 | 3.07 Hz |
| Characteristic inner ring frequency, BPF1 | 4.93 Hz |
| da min | 64 mm |
| Da max | 111 mm |
| ra max | 2 mm |
| rNa max | 0.5 mm |
| Db 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 |