

NKE 7214-BE-TVP angular contact ball bearings

NKE 7214-BE-TVP angular contact ball bearings 80x50x16 Size (mm) Product Brochures , Manufacturing Service . 50 Outer Diameter (mm) Get Your Free.

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| Size (mm) | 80x50x16 |
| Bore Diameter (mm) | 80 |
| Outer Diameter (mm) | 50 |
| Width (mm) | 16 |
| d | 50 mm |
| D | 80 mm |
| B | 16 mm |
| d1 | 59.2 mm |
| d2 | 59.2 mm |
| D1 | 70.8 mm |
| r1,2 – min. | 1 mm |
| r3,4 – min. | 0.3 mm |
| a | 16.8 mm |
| da – min. | 54.6 mm |
| db – min. | 54.6 mm |
| Da – max. | 75.4 mm |
| Db – max. | 78 mm |
| ra – max. | 1 mm |
| rb – max. | 0.3 mm |
| dn | 61.2 mm |
| Basic dynamic load rating – C | 29.6 kN |
| Basic static load rating – C0 | 24 kN |

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|---------------------------------------|---------------------|
| Fatigue load limit – Pu | 1 kN |
| Limiting speed for grease lubrication | 20000 r/min |
| Limiting speed for oil lubrication | 32000 mm/min |
| Ball – Dw | 9.525 mm |
| Ball – z | 18 |
| Gref | 3.6 cm ³ |
| Calculation factor – f ₀ | 15.4 |
| Preload class A – GA | 110 N |
| Preload class B – GB | 220 N |
| Preload class C – GC | 440 N |
| Preload class D – GD | 880 N |
| Calculation factor – f | 1 |
| Calculation factor – f _{2A} | 1 |
| Calculation factor – f _{2B} | 1.02 |
| Calculation factor – f _{2C} | 1.05 |
| Calculation factor – f _{2D} | 1.09 |
| Calculation factor – f _{HC} | 1.02 |
| Preload class A | 64 N/micron |
| Preload class B | 88 N/micron |
| Preload class C | 124 N/micron |
| Preload class D | 179 N/micron |
| Inventory | 0.0 |
| Manufacturer Name | SKF |
| Minimum Buy Quantity | N/A |
| Weight / Kilogram | 0 |
| Product Group | B04270 |
| Enclosure | Open |
| Precision Class | ABEC 7 ISO P4 |

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|------------------------|------------------------------------------------------------------------------------------------------|
| Material – Ball | Ceramic |
| Number of Bearings | 1 (Single) |
| Contact Angle | 15 Degree |
| Preload | None |
| Raceway Style | 1 Rib Outer Ring |
| Cage Material | Phenolic |
| Rolling Element | Ball Bearing |
| Flush Ground | No |
| Inch – Metric | Metric |
| Other Features | Single Row Angular Contact High Capacity Basic Design |
| Long Description | 50MM Bore; 80MM Outside Diameter; 16MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Ceramic Bal |
| UNSPSC | 31171531 |
| Harmonized Tariff Code | 8482.10.50.28 |
| Noun | Bearing |
| Keyword String | Ball Angular Contact |
| Weight / LBS | 0.46297 |
| Outside Diameter | 3.15 Inch 80 Millimeter |
| Width | 0.63 Inch 16 Millimeter |
| Bore | 1.969 Inch 50 Millimeter |
| r1,2 min. | 1 mm |
| r3,4 min. | 0.3 mm |
| da min. | 54.6 mm |
| db min. | 54.6 mm |

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|------------------------------------------|---------------------|
| Da max. | 75.4 mm |
| Db max. | 78 mm |
| ra max. | 1 mm |
| rb max. | 0.3 mm |
| Basic dynamic load rating C | 29.6 kN |
| Basic static load rating C0 | 24 kN |
| Fatigue load limit Pu | 1.02 kN |
| Attainable speed for grease lubrication | 20000 r/min |
| Attainable speed for oil-air lubrication | 32000 r/min |
| Ball diameter Dw | 9.525 mm |
| Number of balls z | 18 |
| Reference grease quantity Gref | 3.6 cm ³ |
| Preload class A GA | 110 N |
| Static axial stiffness, preload class A | 64 N/μm |
| Preload class B GB | 220 N |
| Static axial stiffness, preload class B | 88 N/μm |
| Preload class C GC | 440 N |
| Static axial stiffness, preload class C | 124 N/μm |
| Preload class D GD | 880 N |
| Static axial stiffness, preload class D | 179 N/μm |
| Calculation factor f | 1.11 |
| Calculation factor f1 | 1 |
| Calculation factor f2A | 1 |
| Calculation factor f2B | 1.02 |

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|------------------------|---------|
| Calculation factor f2C | 1.05 |
| Calculation factor f2D | 1.09 |
| Calculation factor fHC | 1.02 |
| Calculation factor f0 | 15.4 |
| Mass bearing | 0.22 kg |