

# 22212EAKE4 NSK 60x110x28mm

## TSR rpm 5300 Spherical roller bearings

|                               |                                                                                                                                                                                                                                    |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bearing number                | 22212EAKE4                                                                                                                                                                                                                         |
| Size (mm)                     | 60x110x28                                                                                                                                                                                                                          |
| Brand                         | NSK                                                                                                                                                                                                                                |
| Bore Diameter (mm)            | 60                                                                                                                                                                                                                                 |
| Outer Diameter (mm)           | 110                                                                                                                                                                                                                                |
| Width (mm)                    | 28                                                                                                                                                                                                                                 |
| d                             | 60 mm                                                                                                                                                                                                                              |
| D                             | 110 mm                                                                                                                                                                                                                             |
| B                             | 28 mm                                                                                                                                                                                                                              |
| r min.                        | 28 mm                                                                                                                                                                                                                              |
| r max.                        | 1.5 mm                                                                                                                                                                                                                             |
| da min.                       | 60 mm                                                                                                                                                                                                                              |
| da max.                       | 72 mm                                                                                                                                                                                                                              |
| Da min.                       | 88 mm                                                                                                                                                                                                                              |
| Da max.                       | 101 mm                                                                                                                                                                                                                             |
| ra max.                       | 1.5 mm                                                                                                                                                                                                                             |
| Weight                        | 1.1 kg                                                                                                                                                                                                                             |
| Basic dynamic load rating (C) | 142 kN                                                                                                                                                                                                                             |
| Basic static load rating (C0) | 174 kN                                                                                                                                                                                                                             |
| (C rated)                     |                                                                                                                                                                                                                                    |
| Lubrication Speed             | 4300 r/min                                                                                                                                                                                                                         |
| (H011)                        |                                                                                                                                                                                                                                    |
| Lubrication Speed             | 5300 r/min                                                                                                                                                                                                                         |
| Calculation factor (e)        | 0.23                                                                                                                                                                                                                               |
| Calculation factor (Y0)       | 2.9                                                                                                                                                                                                                                |
| Calculation factor (Y2)       | 4.4                                                                                                                                                                                                                                |
| Category                      | Spherical Roller Bearings                                                                                                                                                                                                          |
| BSI Inventory                 | 6.4                                                                                                                                                                                                                                |
| Manufacturer Name             | NSK                                                                                                                                                                                                                                |
| Minimum Buy Quantity          | N/A                                                                                                                                                                                                                                |
| Weight / kilogram             | 1.1                                                                                                                                                                                                                                |
| EAN                           | 6020176411151                                                                                                                                                                                                                      |
| Product Group - B01           | B04311                                                                                                                                                                                                                             |
| Internal Clearance            | C0-Medium                                                                                                                                                                                                                          |
| Mounting Method               | Adapter Mount                                                                                                                                                                                                                      |
| Rolling Element               | Spherical Roller Bearing                                                                                                                                                                                                           |
| Bore Profile                  | Tapered                                                                                                                                                                                                                            |
| Cage Material                 | Steel                                                                                                                                                                                                                              |
| Enclosure                     | Open                                                                                                                                                                                                                               |
| Number of Rows of Rollers     | Double Row                                                                                                                                                                                                                         |
| Relubricatable                | Yes                                                                                                                                                                                                                                |
| Withdrawal Sleeve             | AK0312 (Specify bore)                                                                                                                                                                                                              |
| Isnt - Metric                 | Metric                                                                                                                                                                                                                             |
| Long Description              | 60mm Tapered Bore, 120mm Outside Diameter, 28mm Width, C0-Medium Clearance, Adapter Mount, Double Row of Spherical Roller Bearings, Steel Cage Material, Open Enclosure, Relubricatable, Adapter Part Number - H312 (Specify bore) |
| Other Features                | Order adapter or withdrawal sleeve or not separately. Others may be available                                                                                                                                                      |
| Category - B01                | Spherical Roller Bearing                                                                                                                                                                                                           |
| UDPSIC                        | 31171510                                                                                                                                                                                                                           |
| Harmonized Tariff Code        | 84823000                                                                                                                                                                                                                           |
| Non                           | Bearing                                                                                                                                                                                                                            |
| Keyword String                | Spherical                                                                                                                                                                                                                          |
| Manufacturer URL              | http://www.nskamericas.com                                                                                                                                                                                                         |
| Manufacturer Item Number      | 22212EAKE4                                                                                                                                                                                                                         |
| Weight / LBS                  | 2.4                                                                                                                                                                                                                                |
| Width                         | 1.102 Inch   28 Millimeter                                                                                                                                                                                                         |
| Outside Diameter              | 4.331 Inch   110 Millimeter                                                                                                                                                                                                        |
| Adapter Part Number           | SNW12 H312 H312 H312 (Specify Bore) Inch   H312 (Specify Bore) Millimeter                                                                                                                                                          |
| Bore                          | 2.362 Inch   60 Millimeter                                                                                                                                                                                                         |
| bore diameter:                | 60 mm                                                                                                                                                                                                                              |
| maximum rpm:                  | 6000 RPM                                                                                                                                                                                                                           |
| outside diameter:             | 110 mm                                                                                                                                                                                                                             |
| operating temperature range:  | Maximum of +200 °C                                                                                                                                                                                                                 |
| overall width:                | 28 mm                                                                                                                                                                                                                              |
| cage material:                | Steel                                                                                                                                                                                                                              |
| bore type:                    | Tapered 1:12                                                                                                                                                                                                                       |
| bearing material:             | Steel                                                                                                                                                                                                                              |
| outer ring type:              | Not Split                                                                                                                                                                                                                          |
| cage type:                    | Inner Ring Guided                                                                                                                                                                                                                  |
| internal clearance:           | C0                                                                                                                                                                                                                                 |
| precision rating:             | BBEC 1 (ISO Class Normal)                                                                                                                                                                                                          |
| closure type:                 | Open                                                                                                                                                                                                                               |
| finish/coating:               | Uncoated                                                                                                                                                                                                                           |
| lubrication hole type:        | Lubrication Groove & Hole                                                                                                                                                                                                          |
| outer ring width:             | 28 mm                                                                                                                                                                                                                              |
| dynamic load capacity:        | 170000 N                                                                                                                                                                                                                           |
| fillet radius:                | 1.5 mm                                                                                                                                                                                                                             |
| static load capacity:         | 174000 N                                                                                                                                                                                                                           |
| varies:                       | 222                                                                                                                                                                                                                                |
| Y1                            | 3                                                                                                                                                                                                                                  |
| Y2                            | 22212EAKE4                                                                                                                                                                                                                         |
| Y3                            | 1                                                                                                                                                                                                                                  |
| Y4                            | 2.0                                                                                                                                                                                                                                |
| Y5                            | 1.00                                                                                                                                                                                                                               |
| Y6                            | 4.4                                                                                                                                                                                                                                |
| Y7                            | 8.000                                                                                                                                                                                                                              |
| Y8                            | 1.5                                                                                                                                                                                                                                |
| Y9                            | 5300                                                                                                                                                                                                                               |
| Y10                           | 110                                                                                                                                                                                                                                |
| Y11                           | 60-856                                                                                                                                                                                                                             |
| Y12                           | 1                                                                                                                                                                                                                                  |
| Y13                           | SNR_C18_18                                                                                                                                                                                                                         |
| Y14                           | 1                                                                                                                                                                                                                                  |
| Y15                           | 0.67                                                                                                                                                                                                                               |
| Y16                           | 10-13                                                                                                                                                                                                                              |
| Y17                           | 0-23                                                                                                                                                                                                                               |
| Y18                           | 13.02                                                                                                                                                                                                                              |
| Y19                           | 22212EAKE4                                                                                                                                                                                                                         |
| Y20                           | 10                                                                                                                                                                                                                                 |
| Y21                           | 38                                                                                                                                                                                                                                 |
| Y22                           | 8                                                                                                                                                                                                                                  |
| Y23                           | 8                                                                                                                                                                                                                                  |
| Y24                           | 101                                                                                                                                                                                                                                |
| Y25                           | 98                                                                                                                                                                                                                                 |
| Y26                           | 22212EAKE4                                                                                                                                                                                                                         |
| Y27                           | HPS                                                                                                                                                                                                                                |
| Y28                           | 0.151                                                                                                                                                                                                                              |
| Y29                           | 10-103                                                                                                                                                                                                                             |
| Y30                           | 1.5                                                                                                                                                                                                                                |
| Y31                           | 2320                                                                                                                                                                                                                               |
| Y32                           | 20                                                                                                                                                                                                                                 |
| Y33                           | 74.111                                                                                                                                                                                                                             |
| Y34                           | /bearingguide/html/calculation.jsp                                                                                                                                                                                                 |