# 22216EAKE4 NSK Y0 3 80x140x33mm Spherical roller bearings

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|---|---|
| Bearing number | 22216EAKE4 |
| Size (mm) | 80x140x33 |
| Brand | NSK |
| Bore Diameter (mm) | 80 |
| Outer Diameter (mm) | 140 |
| Width (mm) | 33 |
| d | 80 mm |
| D | 140 mm |
| B | 33 mm |
| C | 33 mm |
| r min. | 2 mm |
| da min. | 90 mm |
| da max | 94 mm |
| Da min | 126 mm |
| Da max. | 130 mm |
| ra max. | 2 mm |
| Weight | 2.01 Kg |
| Basic dynamic load rating (C) | 212 kN |
| Basic static load rating (C0) | 275 kN |
| (Grease) Lubrication Speed | 3200 r/min |
| (Oil) Lubrication Speed | 4000 r/min |
| Calculation factor (e) | 0.22 |
| Calculation factor (Y0) | 3 |
| Calculation factor (Y2) | 4.6 |
| Category | Spherical Roller Bearings |
| BDI Inventory | 0.0 |
| Manufacturer Name | NSK |
| Minimum Buy Quantity | N/A |
| Weight / Kilogram | 2.08 |
| EAN | 0029176411311 |
| Product Group – BDI | 804311 |
| 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 | AH316 (Specify bore) |
| Inch – Metric | Metric |
| Long Description | 80MM Tapered Bore; 140MM Outside Diameter; 33MM Width; C0-Medium Clearance; Adapter Mount; Double Row of Spherical Roller Bearings; Steel Cage Material; Open Enclosure; Relubricatable; Adapter Part Number – H316 (Specify bore) |
| Other Features | Order adapter or withdrawal sleeve or nut separately. Others may be available |
| Category – BDI | Spherical Roller Bearing |
| UNSPSC | 31171510 |
| Harmonized Tariff Code | 8482.3080 |
| Noun | Bearing |
| Keyword String | Spherical |
| Manufacturer URL | http://www.nskamericas.com |
| Manufacturer Item Number | 22216EAKE4 |
| Weight / LBS | 2.08 |
| Width | 1.299 Inch \| 33 Millimeter |
| Bore | 3.15 Inch \| 80 Millimeter |
| Outside Diameter | 5.512 Inch \| 140 Millimeter |
| Adapter Part Number | SNW16 H316 HA316 HE316 (Specify Bore) Inch \| H316 (Specify bore) Millimeter |
| bore diameter: | 80 mm |
| maximum rpm: | 4500 RPM |
| outside diameter: | 140 mm |
| operating temperature range: | Maximum of +200 °C |
| overall width: | 33 mm |
| cage material: | Steel |
| bore type: | Tapered 1:12 |
| bearing material: | Steel |
| outer ring type: | Not Split |
| cage type: | Roller Guided |
| internal clearance: | C0 |
| precision rating: | RBEC 1 (ISO Class Normal) |
| closure type: | Open |
| finish/coating: | Uncoated |
| lubrication hole type: | Lubrication Groove & Hole |
| outer ring width: | 33 mm |
| dynamic load capacity: | 264000 N |
| fillet radius: | 2 mm |
| static load capacity: | 275000 N |
| series: | 222 |
| Y3 | 3.1 |
| hidYobi | 22216EAKE4 |
| LangID | 1 |
| Y1 | 3 |
| D_ | 140 |
| Y2 | 4.6 |
| Macha rpm | 6000 |
| B_ | 33 |
| CAD | https://service.web2cad.co.jp/pcom/maker_login.php?Maker=NSK_RB&language=j&&info=nsk_rb/roller_bearings/spherical_rb/tapered_bore_asmtab.prj&varset={STAN=HPS}.{ORDER=22216EAKE4}.{SD=80}.{D=140}.{B=33.0}.{R=2.0}.{CR1=264000}.{C0R1=275000}.{LT=4000}.{LM=6000}.{LG=3600}.{LD=4500}.{DA1=90}.{DA2=94}.{DA3=130}.{DA4=126}.{RA=2.0}.{E=0.22}.{Y2=4.6}.{Y3=3.1}.{Y0=3.0}.{MASS=2.01} |
| da min | 90 |
| hidTable | wcat_MSSPMR |
| Oil rpm | 4500 |
| Y0 | 3 |
| mass | 2.01 |
| GRS rpm | 3600 |
| ra | 2 |
| TSR rpm | 4000 |
| C0 | 275 |
| DE_ | 127.638 |
| XB | 1 |
| Prod_Type3 | SRB_CTB_TB |
| X1 | 1 |
| X2 | 0.67 |
| SIR | 12.8 |
| e | 0.22 |
| DA_ | 15.8 |
| bomp | 22216EAKE4 |
| Z_ | 28 |
| ALP2 | 20 |
| ALP1 | 8 |
| ALP3 | 0 |
| D_a max | 130 |
| D_a min | 126 |
| yobi | 22216EAKE4 |
| HPS | HPS |
| ALPHA | 0.145 |
| SDM_ | 112.005 |
| r | 2 |
| KBRG | 2328 |
| SBRG | 22 |
| DI_ | 96.372 |
| calcUrl | /BearingGuide/html/calculation.jsp |