# 21317EAKE4 NSK 85x180x41mm Calculation factor (e) 0.24 Spherical roller bearings

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|---|---|
| Bearing number | 21317EAKE4 |
| Size (mm) | 85x180x41 |
| Brand | NSK |
| Bore Diameter (mm) | 85 |
| Outer Diameter (mm) | 180 |
| Width (mm) | 41 |
| d | 85 mm |
| D | 180 mm |
| B | 41 mm |
| C | 41 mm |
| r min. | 3 mm |
| da min. | 99 mm |
| da max | 108 mm |
| Da min | 142 mm |
| Da max. | 166 mm |
| ra max. | 2.5 mm |
| Weight | 5.2 Kg |
| Basic dynamic load rating (C) | 289 kN |
| Basic static load rating (C0) | 395 kN |
| (Grease) Lubrication Speed | 2800 r/min |
| (Oil) Lubrication Speed | 3600 r/min |
| Calculation factor (e) | 0.24 |
| Calculation factor (Y0) | 2.8 |
| Calculation factor (Y2) | 4.3 |
| Category | Spherical Roller Bearings |
| BDI Inventory | 0.0 |
| Manufacturer Name | NSK |
| Minimum Buy Quantity | N/A |
| Weight / Kilogram | 5.25 |
| EAN | 0029176410932 |
| 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 | AH317 (Specify bore) |
| Inch - Metric | Metric |
| Long Description | 85MM Tapered Bore; 180MM Outside Diameter; 41MM Width; C0-Medium Clearance; Adapter Mount; Double Row of Spherical Roller Bearings; Steel Cage Material; Open Enclosure; Relubricatable; Adapter Part Number - H317 (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 | 21317EAKE4 |
| Weight / LBS | 5.25 |
| Outside Diameter | 7.087 Inch \| 180 Millimeter |
| Width | 1.614 Inch \| 41 Millimeter |
| Bore | 3.346 Inch \| 85 Millimeter |
| Adapter Part Number | SNW17 H317 HA317 HE317 (Specify Bore) Inch \| H317 (Specify bore) Millimeter |
| bore diameter: | 85 mm |
| maximum rpm: | 4000 RPM |
| outside diameter: | 180 mm |
| operating temperature range: | Maximum of +200 °C |
| overall width: | 41 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: | 41 mm |
| dynamic load capacity: | 360000 N |
| fillet radius: | 3 mm |
| static load capacity: | 395000 N |
| series: | 213 |
| Y3 | 2.9 |
| hidYobi | 21317EAKE4 |
| LangID | 1 |
| Y1 | 2.8 |
| D_ | 180 |
| Y2 | 4.3 |
| Macha rpm | 5000 |
| B_ | 41 |
| CAD | https://service.web2cad.co.jp/pcom/maker_login.php?Maker=NSK_RB&language=ja&info=nsk_rb/roller_bearings/spherical_rb/tapered_bore_asmtab.prj&varset={STAN=HPS}.{OHDER=21317EAKE4}.{SD=85}.{D=180}.{B=41.0}.{R=3.0}.{CR1=360000}.{C0R1=395000}.{LT=3800}.{LH=5000}.{LG=3000}.{LO=4000}.{DA1=99}.{DA2=108}.{DA3=166}.{DA4=142}.{RA=2.5}.{E=0.24}.{Y2=4.3}.{Y3=2.9}.{Y0=2.8}.{MASS=5.20} |
| da min | 99 |
| hidTable | ecat_NSSPMR |
| Oil rpm | 4000 |
| Y0 | 2.8 |
| mass | 5.2 |
| GRS rpm | 3600 |
| ra | 2.5 |
| TSR rpm | 3800 |
| C0 | 395 |
| DE_ | 145.223 |
| X0 | 1 |
| Prod_Type3 | SNB_CTB_TB |
| X1 | 1 |
| X2 | 0.67 |
| SIR | 15.9 |
| e | 0.24 |
| DA_ | 17.83 |
| bomp | 21317EAKE4 |
| Z_ | 20 |
| ALP2 | 55 |
| ALP1 | 8 |
| ALP3 | 0 |
| D_a max | 166 |
| D_a min | 142 |
| yobi | 21317EAKE4 |
| HPS | HPS |
| ALPHA | 0.156 |
| SDM | 127.609 |
| r | 3 |
| KBRG | 2328 |
| SBRG | 3 |
| DI_ | 109.094 |
| calcUrl | /BearingGuide/html/calculation.jsp |