



**Bearing No. 7208 BEGAP**

|                |                              |
|----------------|------------------------------|
| D              | 80 mm                        |
| d              | 40 mm                        |
| B              | 18 mm                        |
| a              | 34 mm                        |
| Bore           | 1.575 Inch   40 Millimeter   |
| Noun           | Bearing                      |
| Width          | 0.709 Inch   18 Millimeter   |
| UNSPSC         | 31171531                     |
| Preload        | Light                        |
| series:        | 72                           |
| Category       | Angular Contact Ball Bearing |
| Size (mm)      | 80x40x18                     |
| Enclosure      | Open                         |
| Snap Ring      | No                           |
| Inventory      | 0.0                          |
| Width (mm)     | 18                           |
| Weight / LBS   | 0.785                        |
| Flush Ground   | Yes                          |
| Mass bearing   | 0.37 kg                      |
| maximum rpm:   | 11000 RPM                    |
| Product Group  | B00308                       |
| Inch - Metric  | Metric                       |
| closure type:  | Open                         |
| Contact Angle  | 40 Degree                    |
| Cage Material  | Polymer                      |
| D <sub>1</sub> | 65.55 mm                     |
| d <sub>2</sub> | 48.08 mm                     |
| d <sub>1</sub> | 56.25 mm                     |

|                     |   |
|---------------------|---|
| cage material:      | Nylon   |
| Keyword String      | Angular Contact   |
| overall width:      | 18 mm   |
| contact angle:      | 40 °  |
| fillet radius:      | 1 mm  |
| bore diameter:      | 40 mm   |
| Bearing number      | 7208 BEGAP  |
| Limiting speed      | 11000 r/min   |
| finish/coating:     | Uncoated  |
| Rolling Element     | Ball Bearing  |
| Precision Class     | ABEC 3   ISO P6   |
| Reference speed     | 11000 r/min   |
| Long Description    | 40MM Bore; 80MM Outside Diameter; 18MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3   ISO P6; No Filling Slot; No Snap Ring |
| Outside Diameter    | 3.15 Inch   80 Millimeter   |
| Manufacturer URL    | <a href="http://www.skf.com">http://www.skf.com</a>   |
| Weight / Kilogram   | 0.36  |
| precision rating:   | ABEC 3 (ISO Class 6)  |
| outside diameter:   | 80 mm   |
| outer ring width:   | 18 mm   |
| Manufacturer Name   | SKF   |
| Bore Diameter (mm)  | 80  |
| r <sub>b</sub> max. | 0.6 mm  |
| r <sub>a</sub> max. | 1 mm  |
| D <sub>b</sub> max. | 75.8 mm   |
| D <sub>a</sub> max. | 73 mm   |
| d <sub>a</sub> min. | 47 mm   |
| Number of Bearings  | 1 (Single)  |
|                     |   |

|                               |                          |
|-------------------------------|--------------------------|
| Internal Clearance            | C0-Medium                |
| Outer Diameter (mm)           | 40                       |
| internal clearance:           | C0                       |
| $D_a$ - max.                  | 73 mm                    |
| Calculation factor A          | 0.0102                   |
| $r_{1,2}$ min.                | 1.1 mm                   |
| $d_a$ - min.                  | 47 mm                    |
| Minimum Buy Quantity          | N/A                      |
| Mounting Arrangement          | Universal                |
| $r_{3,4}$ min.                | 0.6 mm                   |
| $r_a$ - max.                  | 1 mm                     |
| $r_b$ - max.                  | 0.6 mm                   |
| Calculation factor X          | 0.57                     |
| Calculation factor e          | 1.14                     |
| $D_b$ - max.                  | 75.8 mm                  |
| $d_1$ ?                       | 56.25 mm                 |
| row type & fill slot:         | Single-Row Non-Fill Slot |
| $D_1$ ?                       | 65.55 mm                 |
| $d_2$ ?                       | 48.08 mm                 |
| Harmonized Tariff Code        | 8482.10.50.28            |
| Calculation factor - X        | 0.35                     |
| Calculation factor - e        | 1.14                     |
| $r_{1,2}$ - min.              | 1.1 mm                   |
| $r_{3,4}$ - min.              | 0.6 mm                   |
| Number of Rows of Balls       | Single Row               |
| Manufacturer Item Number      | 7208 BEGAP               |
| Basic dynamic load rating C   | 36.5 kN                  |
| radial static load capacity:  | 26 kN                    |
| radial dynamic load capacity: | 36.5 kN                  |
|                               |                          |

|                                  |         |
|----------------------------------|---------|
| Basic dynamic load rating - C    | 36.5 kN |
| Maximum Capacity / Filling Slot  | No      |
| Calculation factor $Y_0$         | 0.52    |
| Calculation factor $Y_2$         | 0.93    |
| Calculation factor $Y_1$         | 0.55    |
| Calculation factor $k_r$         | 0.095   |
| Fatigue load limit $P_u$         | 1.1 kN  |
| Fatigue load limit - $P_u$       | 1.1 kN  |
| Calculation factor - $k_a$       | 1.4     |
| Calculation factor - $k_r$       | 0.095   |
| Calculation factor - $Y_1$       |         |
| Calculation factor - $Y_2$       | 0.57    |
| Calculation factor - $Y_0$       | 0.26    |
| Basic static load rating $C_0$   | 26 kN   |
| Basic static load rating - $C_0$ | 26 kN   |