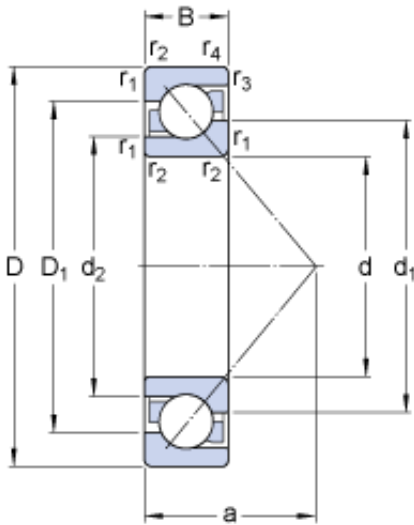




# BEARING USA CORP.

## 60 mm x 130 mm x 31 mm SKF 7312 BEGAP angular contact ball bearings

Bearing No. 7312 BEGAP



7312 BEGAP Bearing 2D drawings and 3D CAD models

|   |              |
|---|--------------|
| Size                                      | 130x60x31 mm |
| Bore Diameter                             | 130 mm       |
| Outer Diameter                            | 60 mm        |
| Width                                     | 31 mm        |
| d   | 60 mm        |
| D   | 130 mm       |
| B   | 31 mm        |
| d <sub>1</sub>                            | 87.25 mm     |
| d <sub>2</sub>                            | 72.6 mm      |
| D <sub>1</sub>                            | 104.8 mm     |
| a   | 55 mm        |
| r <sub>1,2</sub> - min.                   | 2.1 mm       |
| r <sub>3,4</sub> - min.                   | 1.1 mm       |
| d <sub>a</sub> - min.                     | 72 mm        |
| D <sub>a</sub> - max.                     | 118 mm       |
| D <sub>b</sub> - max.                     | 123 mm       |
| r <sub>a</sub> - max.                     | 2 mm         |
| r <sub>b</sub> - max.                     | 1 mm         |
| Basic dynamic load rating - C             | 104 kN       |
| Basic static load rating - C <sub>0</sub> | 76.5 kN      |
| Fatigue load limit - P <sub>u</sub>       | 3.2 kN       |
| Reference speed                           | 6700 r/min   |
| Limiting speed                            | 6700 r/min   |
| Calculation factor - k <sub>r</sub>       | 0.1          |



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|                                 |                               |
|---------------------------------|-------------------------------|
| Calculation factor - $k_a$      | 1.6                           |
| Calculation factor - e          | 1.14                          |
| Calculation factor - X          | 0.57                          |
| Calculation factor - $Y_0$      | 0.52                          |
| Calculation factor - $Y_1$      | 0.55                          |
| Calculation factor - $Y_2$      | 0.93                          |
| Calculation factor - X          | 0.35                          |
| Calculation factor - $Y_0$      | 0.26                          |
| Calculation factor - $Y_1$      |                               |
| Calculation factor - $Y_2$      | 0.57                          |
| Category                        | Angular Contact Ball Bearings |
| Inventory                       | 0.0                           |
| Manufacturer Name               | SKF                           |
| Minimum Buy Quantity            | N/A                           |
| Weight / Kilogram               | 1.71                          |
| Product Group                   | B00308                        |
| Enclosure                       | Open                          |
| Flush Ground                    | Yes                           |
| Rolling Element                 | Ball Bearing                  |
| Number of Rows of Balls         | Single Row                    |
| Precision Class                 | ABEC 3   ISO P6               |
| Maximum Capacity / Filling Slot | No                            |
| Snap Ring                       | No                            |
| Cage Material                   | Polymer                       |
| Contact Angle                   | 40 Degree                     |
| Internal Clearance              | C0-Medium                     |
| Number of Bearings              | 1 (Single)                    |
| Preload                         | Light                         |
| Mounting Arrangement            | Universal                     |
| Inch - Metric                   | Metric                        |



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|                               |  |
|-------------------------------|--|
| Long Description              | 60MM Bore; 130MM Outside Diameter; 31MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3   ISO P6; No Filling Slot; No Snap Ring |
| Category                      | Angular Contact Ball Bearing   |
| UNSPSC                        | 31171531   |
| Harmonized Tariff Code        | 8482.10.50.28  |
| Noun                          | Bearing  |
| Keyword String                | Angular Contact  |
| Manufacturer URL              | <a href="http://www.skf.com">http://www.skf.com</a>  |
| Manufacturer Item Number      | 7312 BEGAP   |
| Weight / LBS                  | 3.766  |
| Width                         | 1.22 Inch   31 Millimeter  |
| Outside Diameter              | 5.118 Inch   130 Millimeter  |
| Bore                          | 2.362 Inch   60 Millimeter   |
| bore diameter:                | 60 mm  |
| radial static load capacity:  | 76.5 kN  |
| outside diameter:             | 130 mm   |
| cage material:                | Nylon  |
| overall width:                | 31 mm  |
| outer ring width:             | 31 mm  |
| contact angle:                | 40 °   |
| maximum rpm:                  | 6700 RPM   |
| row type & fill slot:         | Single-Row Non-Fill Slot   |
| finish/coating:               | Uncoated   |
| internal clearance:           | C0   |
| precision rating:             | ABEC 3 (ISO Class 6)   |
| closure type:                 | Open   |
| fillet radius:                | 2 mm   |
| radial dynamic load capacity: | 104 kN   |



## BEARING USA CORP.

|                                |          |
|--------------------------------|----------|
| series:                        | 73       |
| $d_1$                          | 87.25 mm |
| $d_2$                          | 72.6 mm  |
| $D_1$                          | 104.8 mm |
| $r_{1,2}$ min.                 | 2.1 mm   |
| $r_{3,4}$ min.                 | 1.1 mm   |
| $d_a$ min.                     | 72 mm    |
| $D_a$ max.                     | 118 mm   |
| $D_b$ max.                     | 123 mm   |
| $r_a$ max.                     | 2 mm     |
| $r_b$ max.                     | 1 mm     |
| Basic dynamic load rating C    | 104 kN   |
| Basic static load rating $C_0$ | 76.5 kN  |
| Fatigue load limit $P_u$       | 3.2 kN   |
| Calculation factor A           | 0.0846   |
| Calculation factor $k_r$       | 0.1      |
| Calculation factor e           | 1.14     |
| Calculation factor X           | 0.35     |
| Calculation factor $Y_0$       | 0.26     |
| Calculation factor $Y_2$       | 0.57     |
| Calculation factor X           | 0.57     |
| Calculation factor $Y_0$       | 0.52     |
| Calculation factor $Y_1$       | 0.55     |
| Calculation factor $Y_2$       | 0.93     |
| Mass bearing                   | 1.75 kg  |