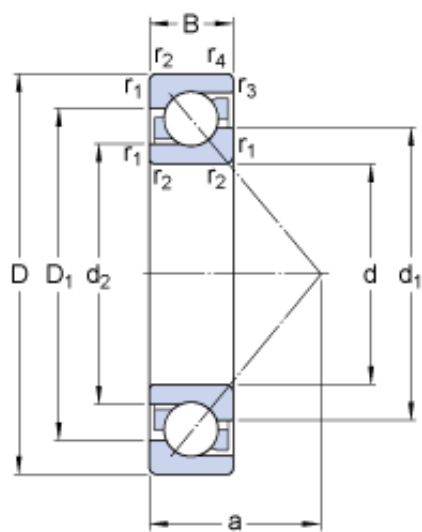




Bearing No. 7220 BECBY

|                |                              |
|----------------|------------------------------|
| a              | 76 mm                        |
| d              | 100 mm                       |
| D              | 180 mm                       |
| B              | 34 mm                        |
| Noun           | Bearing                      |
| Bore           | 3.937 Inch   100 Millimeter  |
| Width          | 1.339 Inch   34 Millimeter   |
| UNSPSC         | 31171531                     |
| series:        | 72                           |
| Category       | Angular Contact Ball Bearing |
| Enclosure      | Open                         |
| Snap Ring      | No                           |
| Size (mm)      | 180x100x34                   |
| Inventory      | 0.0                          |
| Width (mm)     | 34                           |
| Weight / LBS   | 7.449                        |
| maximum rpm:   | 4000 RPM                     |
| Flush Ground   | Yes                          |
| Mass bearing   | 3.3 kg                       |
| Contact Angle  | 40 Degree                    |
| Cage Material  | Brass                        |
| closure type:  | Open                         |
| Product Group  | B00308                       |
| Inch - Metric  | Metric                       |
| d <sub>2</sub> | 115.22 mm                    |
| d <sub>1</sub> | 130.95 mm                    |
| D <sub>1</sub> | 150.9 mm                     |
|                |                              |

|                     |                                                                                                                                                           |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other Features      | Normal Axial Internal Clearance                                                                                                                           |
| fillet radius:      | 2 mm                                                                                                                                                      |
| contact angle:      | 40 °                                                                                                                                                      |
| overall width:      | 34 mm                                                                                                                                                     |
| cage material:      | Brass                                                                                                                                                     |
| bore diameter:      | 100 mm                                                                                                                                                    |
| Keyword String      | Angular Contact                                                                                                                                           |
| Bearing number      | 7220 BECBY                                                                                                                                                |
| Limiting speed      | 4000 r/min                                                                                                                                                |
| finish/coating:     | Uncoated                                                                                                                                                  |
| Rolling Element     | Ball Bearing                                                                                                                                              |
| Precision Class     | ABEC 3   ISO P6                                                                                                                                           |
| Reference speed     | 4000 r/min                                                                                                                                                |
| Long Description    | 100MM Bore; 180MM Outside Diameter; 34MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3   ISO P6; No Filling Slot; No Snap Ring |
| Outside Diameter    | 7.087 Inch   180 Millimeter                                                                                                                               |
| Manufacturer URL    | <a href="http://www.skf.com">http://www.skf.com</a>                                                                                                       |
| Weight / Kilogram   | 3.38                                                                                                                                                      |
| precision rating:   | ABEC 3 (ISO Class 6)                                                                                                                                      |
| outside diameter:   | 180 mm                                                                                                                                                    |
| Manufacturer Name   | SKF                                                                                                                                                       |
| outer ring width:   | 34 mm                                                                                                                                                     |
| d <sub>a</sub> min. | 112 mm                                                                                                                                                    |
| Number of Bearings  | 1 (Single)                                                                                                                                                |
| Bore Diameter (mm)  | 180                                                                                                                                                       |
| r <sub>b</sub> max. | 1 mm                                                                                                                                                      |
| r <sub>a</sub> max. | 2 mm                                                                                                                                                      |

|                              |                          |
|------------------------------|--------------------------|
| Internal Clearance           | CB                       |
| D <sub>b</sub> max.          | 173 mm                   |
| D <sub>a</sub> max.          | 168 mm                   |
| internal clearance:          | C0                       |
| Outer Diameter (mm)          | 100                      |
| r <sub>1,2</sub> min.        | 2.1 mm                   |
| Calculation factor A         | 0.239                    |
| Calculation factor e         | 1.14                     |
| Calculation factor X         | 0.57                     |
| Mounting Arrangement         | Universal                |
| r <sub>3,4</sub> min.        | 1.1 mm                   |
| r <sub>b</sub> - max.        | 1 mm                     |
| r <sub>a</sub> - max.        | 2 mm                     |
| D <sub>b</sub> - max.        | 173 mm                   |
| d <sub>a</sub> - min.        | 112 mm                   |
| Minimum Buy Quantity         | N/A                      |
| D <sub>a</sub> - max.        | 168 mm                   |
| D <sub>1</sub> ?             | 150.9 mm                 |
| d <sub>2</sub> ?             | 115.22 mm                |
| d <sub>1</sub> ?             | 130.95 mm                |
| row type & fill slot:        | Single-Row Non-Fill Slot |
| Calculation factor - X       | 0.35                     |
| Calculation factor - e       | 1.14                     |
| r <sub>1,2</sub> - min.      | 2.1 mm                   |
| r <sub>3,4</sub> - min.      | 1.1 mm                   |
| Harmonized Tariff Code       | 8482.10.50.28            |
| Number of Rows of Balls      | Single Row               |
| Manufacturer Item Number     | 7220 BECBY               |
| Basic dynamic load rating C  | 143 kN                   |
| radial static load capacity: | 122 kN                   |
|                              |                          |

|                                  |         |
|----------------------------------|---------|
| radial dynamic load capacity:    | 135 kN  |
| Basic dynamic load rating - C    | 135 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 $P_u$         | 4.75 kN |
| Calculation factor - $k_r$       | 0.095   |
| Calculation factor - $Y_0$       | 0.26    |
| Fatigue load limit - $P_u$       | 4.4 kN  |
| Calculation factor - $Y_1$       |         |
| Calculation factor - $Y_2$       | 0.57    |
| Calculation factor - $k_a$       | 1.4     |
| Basic static load rating $C_0$   | 134 kN  |
| Basic static load rating - $C_0$ | 122 kN  |