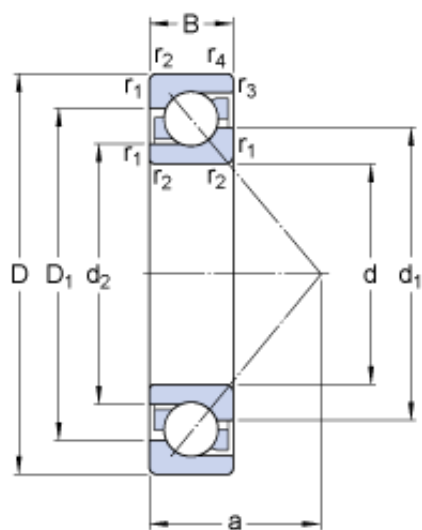




Bearing No. 7211 BEP

|                |                              |
|----------------|------------------------------|
| a              | 43 mm                        |
| d              | 55 mm                        |
| D              | 100 mm                       |
| B              | 21 mm                        |
| Noun           | Bearing                      |
| Bore           | 2.165 Inch   55 Millimeter   |
| Width          | 0.827 Inch   21 Millimeter   |
| UNSPSC         | 31171531                     |
| series:        | 72                           |
| Category       | Angular Contact Ball Bearing |
| Enclosure      | Open                         |
| Snap Ring      | No                           |
| Size (mm)      | 100x55x21                    |
| Inventory      | 0.0                          |
| Width (mm)     | 21                           |
| Weight / LBS   | 1.358                        |
| maximum rpm:   | 7500 RPM                     |
| Flush Ground   | No                           |
| Mass bearing   | 0.62 kg                      |
| Contact Angle  | 40 Degree                    |
| Cage Material  | Polymer                      |
| closure type:  | Open                         |
| Product Group  | B00308                       |
| Inch - Metric  | Metric                       |
| d <sub>1</sub> | 72.45 mm                     |
| d <sub>2</sub> | 63.62 mm                     |
| D <sub>1</sub> | 83.7 mm                      |
|                |                              |

|                     |                                                                                                                                                                              |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bearing number      | 7211 BEP                                                                                                                                                                     |
| Keyword String      | Angular Contact                                                                                                                                                              |
| fillet radius:      | 1.5 mm                                                                                                                                                                       |
| contact angle:      | 40 °                                                                                                                                                                         |
| overall width:      | 21 mm                                                                                                                                                                        |
| cage material:      | Nylon                                                                                                                                                                        |
| bore diameter:      | 55 mm                                                                                                                                                                        |
| Limiting speed      | 7500 r/min                                                                                                                                                                   |
| finish/coating:     | Uncoated                                                                                                                                                                     |
| Reference speed     | 7500 r/min                                                                                                                                                                   |
| Rolling Element     | Ball Bearing                                                                                                                                                                 |
| Precision Class     | ABEC 3   ISO P6                                                                                                                                                              |
| Outside Diameter    | 3.937 Inch   100<br>Millimeter                                                                                                                                               |
| Manufacturer URL    | <a href="http://www.skf.com">http://www.skf.com</a>                                                                                                                          |
| Long Description    | 55MM Bore; 100MM<br>Outside Diameter;<br>21MM Width; Open; No<br>Flush Ground; Ball<br>Bearing; Single Row of<br>Balls; ABEC 3   ISO P6;<br>No Filling Slot; No Snap<br>Ring |
| outer ring width:   | 21 mm                                                                                                                                                                        |
| outside diameter:   | 100 mm                                                                                                                                                                       |
| precision rating:   | Not Rated                                                                                                                                                                    |
| Manufacturer Name   | SKF                                                                                                                                                                          |
| Weight / Kilogram   | 0.621                                                                                                                                                                        |
| Number of Bearings  | 1 (Single)                                                                                                                                                                   |
| Internal Clearance  | C0-Medium                                                                                                                                                                    |
| d <sub>a</sub> min. | 64 mm                                                                                                                                                                        |
| Bore Diameter (mm)  | 100                                                                                                                                                                          |
| D <sub>a</sub> max. | 91 mm                                                                                                                                                                        |
| D <sub>b</sub> max. | 94 mm                                                                                                                                                                        |
| r <sub>a</sub> max. | 1.5 mm                                                                                                                                                                       |

|                               |                          |
|-------------------------------|--------------------------|
| $r_b$ max.                    | 1 mm                     |
| Outer Diameter (mm)           | 55                       |
| internal clearance:           | C0                       |
| $r_{1,2}$ min.                | 1.5 mm                   |
| Calculation factor A          | 0.022                    |
| Calculation factor e          | 1.14                     |
| Calculation factor X          | 0.57                     |
| $r_{3,4}$ min.                | 1 mm                     |
| Minimum Buy Quantity          | N/A                      |
| $D_a$ - max.                  | 91 mm                    |
| $r_b$ - max.                  | 1 mm                     |
| $r_a$ - max.                  | 1.5 mm                   |
| $D_b$ - max.                  | 94 mm                    |
| $d_a$ - min.                  | 64 mm                    |
| $d_2$ ?                       | 63.62 mm                 |
| $D_1$ ?                       | 83.3 mm                  |
| $d_1$ ?                       | 72.5 mm                  |
| row type & fill slot:         | Single-Row Non-Fill Slot |
| Calculation factor - X        | 0.35                     |
| Calculation factor - e        | 1.14                     |
| Harmonized Tariff Code        | 8482.10.50.28            |
| $r_{1,2}$ - min.              | 1.5 mm                   |
| $r_{3,4}$ - min.              | 1 mm                     |
| Number of Rows of Balls       | Single Row               |
| Manufacturer Item Number      | 7211 BEP                 |
| Basic dynamic load rating C   | 46.2 kN                  |
| radial static load capacity:  | 36 kN                    |
| Basic dynamic load rating - C | 46.2 kN                  |
| radial dynamic load capacity: | 46.2 kN                  |

|                                     |         |
|-------------------------------------|---------|
| Maximum Capacity /<br>Filling Slot  | No      |
| Calculation factor $Y_1$            | 0.55    |
| Calculation factor $Y_2$            | 0.93    |
| Calculation factor $k_r$            | 0.095   |
| Fatigue load limit $P_u$            | 1.53 kN |
| Calculation factor $Y_0$            | 0.52    |
| Fatigue load limit - $P_u$          | 1.5 kN  |
| Calculation factor - $Y_2$          | 0.57    |
| Calculation factor - $Y_1$          |         |
| Calculation factor - $k_a$          | 1.4     |
| Calculation factor - $Y_0$          | 0.26    |
| Calculation factor - $k_r$          | 0.095   |
| Basic static load rating<br>$C_0$   | 36 kN   |
| Basic static load rating -<br>$C_0$ | 36 kN   |