



Bearing No. 7203 BEGAP

|                |                              |
|----------------|------------------------------|
| a              | 18 mm                        |
| d              | 17 mm                        |
| D              | 40 mm                        |
| B              | 12 mm                        |
| Bore           | 0.669 Inch   17 Millimeter   |
| Noun           | Bearing                      |
| Width          | 0.472 Inch   12 Millimeter   |
| UNSPSC         | 31171531                     |
| Preload        | Light                        |
| series:        | 72                           |
| Category       | Angular Contact Ball Bearing |
| Size (mm)      | 40x17x12                     |
| Snap Ring      | No                           |
| Enclosure      | Open                         |
| Inventory      | 0.0                          |
| Width (mm)     | 12                           |
| Weight / LBS   | 0.141                        |
| maximum rpm:   | 22000 RPM                    |
| Flush Ground   | Yes                          |
| Mass bearing   | 0.065 kg                     |
| D <sub>1</sub> | 31.15 mm                     |
| Product Group  | B00308                       |
| closure type:  | Open                         |
| d <sub>1</sub> | 26.25 mm                     |
| d <sub>2</sub> | 21.66 mm                     |
| Inch - Metric  | Metric                       |
| Contact Angle  | 40 Degree                    |
|                |                              |

|                    |                                                                                                                                                         |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cage Material      | Polymer                                                                                                                                                 |
| fillet radius:     | 0.6 mm                                                                                                                                                  |
| overall width:     | 12 mm                                                                                                                                                   |
| bore diameter:     | 17 mm                                                                                                                                                   |
| Keyword String     | Angular Contact                                                                                                                                         |
| Bearing number     | 7203 BEGAP                                                                                                                                              |
| Limiting speed     | 22000 r/min                                                                                                                                             |
| Reference speed    | 22000 r/min                                                                                                                                             |
| finish/coating:    | Uncoated                                                                                                                                                |
| Rolling Element    | Ball Bearing                                                                                                                                            |
| Precision Class    | ABEC 3   ISO P6                                                                                                                                         |
| Long Description   | 17MM Bore; 40MM Outside Diameter; 12MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3   ISO P6; No Filling Slot; No Snap Ring |
| Outside Diameter   | 1.575 Inch   40 Millimeter                                                                                                                              |
| Manufacturer URL   | <a href="http://www.skf.com">http://www.skf.com</a>                                                                                                     |
| Manufacturer Name  | SKF                                                                                                                                                     |
| precision rating:  | Not Rated                                                                                                                                               |
| outside diameter:  | 40 mm                                                                                                                                                   |
| outer ring width:  | 12 mm                                                                                                                                                   |
| Weight / Kilogram  | 0.06                                                                                                                                                    |
| Internal Clearance | C0-Medium                                                                                                                                               |
| Number of Bearings | 1 (Single)                                                                                                                                              |
| $r_b$ max.         | 0.6 mm                                                                                                                                                  |
| $r_a$ max.         | 0.6 mm                                                                                                                                                  |
| $D_b$ max.         | 35.8 mm                                                                                                                                                 |
| $D_a$ max.         | 35.8 mm                                                                                                                                                 |
| $d_a$ min.         | 21.2 mm                                                                                                                                                 |
| Bore Diameter (mm) | 40                                                                                                                                                      |

|                               |                          |
|-------------------------------|--------------------------|
| Outer Diameter (mm)           | 17                       |
| internal clearance:           | C0                       |
| Calculation factor A          | 0.000625                 |
| D <sub>b</sub> - max.         | 35.8 mm                  |
| r <sub>1,2</sub> min.         | 0.6 mm                   |
| r <sub>b</sub> - max.         | 0.6 mm                   |
| Minimum Buy Quantity          | N/A                      |
| r <sub>3,4</sub> min.         | 0.6 mm                   |
| Calculation factor e          | 1.14                     |
| r <sub>a</sub> - max.         | 0.6 mm                   |
| Calculation factor X          | 0.57                     |
| d <sub>a</sub> - min.         | 21.2 mm                  |
| Mounting Arrangement          | Universal                |
| D <sub>a</sub> - max.         | 35.8 mm                  |
| d <sub>1</sub> ?              | 26.25 mm                 |
| d <sub>2</sub> ?              | 21.66 mm                 |
| row type & fill slot:         | Single-Row Non-Fill Slot |
| D <sub>1</sub> ?              | 31.15 mm                 |
| Calculation factor - e        | 1.14                     |
| Calculation factor - X        | 0.35                     |
| r <sub>3,4</sub> - min.       | 0.6 mm                   |
| Harmonized Tariff Code        | 8482.10.50.28            |
| r <sub>1,2</sub> - min.       | 0.6 mm                   |
| Number of Rows of Balls       | Single Row               |
| Manufacturer Item Number      | 7203 BEGAP               |
| Basic dynamic load rating C   | 11 kN                    |
| radial static load capacity:  | 5.85 kN                  |
| radial dynamic load capacity: | 11 kN                    |
| Basic dynamic load rating - C | 11 kN                    |

|                                     |         |
|-------------------------------------|---------|
| Maximum Capacity /<br>Filling Slot  | No      |
| Calculation factor $Y_2$            | 0.93    |
| Calculation factor $Y_1$            | 0.55    |
| Calculation factor $Y_0$            | 0.52    |
| Calculation factor $k_r$            | 0.095   |
| Fatigue load limit $P_u$            | 0.25 kN |
| Calculation factor - $Y_2$          | 0.57    |
| Calculation factor - $k_r$          | 0.095   |
| Calculation factor - $k_a$          | 1.4     |
| Fatigue load limit - $P_u$          | 0.25 kN |
| Calculation factor - $Y_0$          | 0.26    |
| Calculation factor - $Y_1$          |         |
| Basic static load rating<br>$C_0$   | 5.85 kN |
| Basic static load rating -<br>$C_0$ | 5.8 kN  |