



**Bearing No. 7307 BEGAPH**

|                |                              |
|----------------|------------------------------|
| D              | 80 mm                        |
| d              | 35 mm                        |
| B              | 21 mm                        |
| a              | 35 mm                        |
| Bore           | 1.378 Inch   35 Millimeter   |
| Noun           | Bearing                      |
| Width          | 0.827 Inch   21 Millimeter   |
| UNSPSC         | 31171531                     |
| Preload        | Light                        |
| Category       | Angular Contact Ball Bearing |
| Inventory      | 0.0                          |
| Enclosure      | Open                         |
| Size (mm)      | 80x35x21                     |
| Snap Ring      | No                           |
| Width (mm)     | 21                           |
| Flush Ground   | Yes                          |
| Mass bearing   | 0.45 kg                      |
| Contact Angle  | 40 Degree                    |
| Cage Material  | PEEK                         |
| Inch - Metric  | Metric                       |
| D <sub>1</sub> | 63.45 mm                     |
| d <sub>2</sub> | 43.62 mm                     |
| d <sub>1</sub> | 52.65 mm                     |
| Product Group  | B00308                       |
| Keyword String | Angular Contact              |
| Bearing number | 7307 BEGAPH                  |
| Limiting speed | 11000 r/min                  |
|                |                              |

|                       |  |
|-----------------------|--|
| Reference speed       | 11000 r/min  |
| Rolling Element       | Ball Bearing   |
| Precision Class       | ABEC 1   ISO P0  |
| Outside Diameter      | 3.15 Inch   80 Millimeter  |
| Manufacturer URL      | <a href="http://www.skf.com">http://www.skf.com</a>  |
| Long Description      | 35MM Bore; 80MM Outside Diameter; 21MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 1   ISO P0; No Filling Slot; No Snap Ring; C0-Medium; PEEK Cage; 40 Degree; 1 (Single); Li |
| Manufacturer Name     | SKF  |
| Weight / Kilogram     | 0  |
| Internal Clearance    | C0-Medium  |
| d <sub>a</sub> min.   | 44 mm  |
| D <sub>a</sub> max.   | 71 mm  |
| Bore Diameter (mm)    | 80   |
| D <sub>b</sub> max.   | 74.4 mm  |
| r <sub>a</sub> max.   | 1.5 mm   |
| r <sub>b</sub> max.   | 1 mm   |
| Number of Bearings    | 1 (Single)   |
| Outer Diameter (mm)   | 35   |
| Mounting Arrangement  | Universal  |
| r <sub>1,2</sub> min. | 1.5 mm   |
| d <sub>a</sub> - min. | 44 mm  |
| D <sub>a</sub> - max. | 71 mm  |
| r <sub>3,4</sub> min. | 1 mm   |
| D <sub>b</sub> - max. | 74.4 mm  |
| r <sub>a</sub> - max. | 1.5 mm   |
| r <sub>b</sub> - max. | 1 mm   |
| Minimum Buy Quantity  | N/A  |

|                                  |               |
|----------------------------------|---------------|
| Calculation factor A             | 0.0111        |
| Calculation factor e             | 1.14          |
| Calculation factor X             | 0.57          |
| $d_1$ ?                          | 52.5 mm       |
| $D_1$ ?                          | 63.45 mm      |
| $d_2$ ?                          | 43.62 mm      |
| 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          |
| Calculation factor - X           | 0.35          |
| Number of Rows of Balls          | Single Row    |
| Basic dynamic load rating C      | 41.5 kN       |
| Basic dynamic load rating - C    | 41.5 kN       |
| Maximum Capacity / Filling Slot  | No            |
| Fatigue load limit $P_u$         | 1.14 kN       |
| Calculation factor $k_r$         | 0.1           |
| Calculation factor $Y_0$         | 0.52          |
| Calculation factor $Y_2$         | 0.93          |
| Calculation factor $Y_1$         | 0.55          |
| Fatigue load limit - $P_u$       | 1.1 kN        |
| Calculation factor - $k_r$       | 0.1           |
| Calculation factor - $k_a$       | 1.6           |
| Calculation factor - $Y_2$       | 0.57          |
| Calculation factor - $Y_1$       |               |
| Calculation factor - $Y_0$       | 0.26          |
| Basic static load rating $C_0$   | 26.5 kN       |
| Basic static load rating - $C_0$ | 26.5 kN       |

