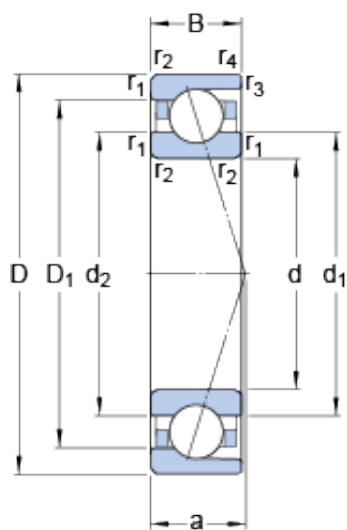




Bearing No. 7016 CD/P4A

|                |                            |
|----------------|----------------------------|
| a              | 24.8 mm                    |
| d              | 80 mm                      |
| D              | 125 mm                     |
| B              | 22 mm                      |
| Bore           | 3.15 Inch   80 Millimeter  |
| Noun           | Bearing                    |
| Width          | 0.866 Inch   22 Millimeter |
| UNSPSC         | 31171531                   |
| Preload        | None                       |
| Ball - z       | 20                         |
| Category       | Precision Ball Bearings    |
| Size (mm)      | 125x80x22                  |
| Enclosure      | Open                       |
| Inventory      | 0.0                        |
| Width (mm)     | 22                         |
| Weight / LBS   | 1.949                      |
| Flush Ground   | No                         |
| Mass bearing   | 0.85 kg                    |
| d <sub>1</sub> | 93.9 mm                    |
| d <sub>2</sub> | 93.9 mm                    |
| D <sub>1</sub> | 111.1 mm                   |
| Inch - Metric  | Metric                     |
| Cage Material  | Phenolic                   |
| Raceway Style  | 1 Rib Outer Ring           |
| d <sub>n</sub> | 96.9 mm                    |
| Product Group  | B04270                     |
| Contact Angle  | 15 Degree                  |
| D <sub>1</sub> | 111.1 mm                   |
| d <sub>n</sub> | 96.9 mm                    |
|                |                            |

|                     |                                                                                                                                                                                                          |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| d <sub>2</sub>      | 93.9 mm                                                                                                                                                                                                  |
| d <sub>1</sub>      | 93.9 mm                                                                                                                                                                                                  |
| Bearing number      | 7016 CD/P4A                                                                                                                                                                                              |
| Keyword String      | Angular Contact Ball                                                                                                                                                                                     |
| Other Features      | Single Row   Angular Contact   High Precision                                                                                                                                                            |
| Preload class B     | 125 N/micron                                                                                                                                                                                             |
| Rolling Element     | Ball Bearing                                                                                                                                                                                             |
| Material - Ball     | Steel                                                                                                                                                                                                    |
| Precision Class     | ABEC 7   ISO P4                                                                                                                                                                                          |
| G <sub>ref</sub>    | 11.1 cm3                                                                                                                                                                                                 |
| Preload class C     | 175 N/micron                                                                                                                                                                                             |
| Preload class D     | 254 N/micron                                                                                                                                                                                             |
| Preload class A     | 92 N/micron                                                                                                                                                                                              |
| Outside Diameter    | 4.921 Inch   125 Millimeter                                                                                                                                                                              |
| Manufacturer URL    | <a href="http://www.skf.com">http://www.skf.com</a>                                                                                                                                                      |
| Long Description    | 80MM Bore; 125MM Outside Diameter; 22MM Width; Open Enclosure; ABEC 7   ISO P4 Precision; Steel Ball Material; 1 (Single) Bearings; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Ra |
| Manufacturer Name   | SKF                                                                                                                                                                                                      |
| Number of balls z   | 20                                                                                                                                                                                                       |
| Weight / Kilogram   | 0.89                                                                                                                                                                                                     |
| d <sub>a</sub> min. | 86 mm                                                                                                                                                                                                    |
| d <sub>b</sub> min. | 86 mm                                                                                                                                                                                                    |
| Bore Diameter (mm)  | 125                                                                                                                                                                                                      |
| Number of Bearings  | 1 (Single)                                                                                                                                                                                               |
| r <sub>b</sub> max. | 0.6 mm                                                                                                                                                                                                   |

|                               |               |
|-------------------------------|---------------|
| $r_a$ max.                    | 1 mm          |
| $D_a$ max.                    | 119 mm        |
| $D_b$ max.                    | 121 mm        |
| Outer Diameter (mm)           | 80            |
| $r_{1,2}$ min.                | 1.1 mm        |
| $r_{3,4}$ min.                | 0.6 mm        |
| $d_a$ - min.                  | 86 mm         |
| Calculation factor f          | 1.13          |
| $d_b$ - min.                  | 86 mm         |
| Ball - $D_w$                  | 14.288 mm     |
| $D_a$ - max.                  | 119 mm        |
| Minimum Buy Quantity          | N/A           |
| $r_a$ - max.                  | 1 mm          |
| $r_b$ - max.                  | 0.6 mm        |
| $D_b$ - max.                  | 121 mm        |
| Harmonized Tariff Code        | 8482.10.50.28 |
| Calculation factor - f        | 1.13          |
| $r_{3,4}$ - min.              | 0.6 mm        |
| $r_{1,2}$ - min.              | 1.1 mm        |
| Manufacturer Item Number      | 7016 CD/P4A   |
| Basic dynamic load rating C   | 65 kN         |
| Ball diameter $D_w$           | 14.288 mm     |
| Preload class B $G_B$         | 480 N         |
| Preload class A $G_A$         | 240 N         |
| Preload class C $G_C$         | 960 N         |
| Preload class D $G_D$         | 1920 N        |
| Basic dynamic load rating - C | 65 kN         |
| Preload class B - $G_B$       | 480 N         |
| Preload class C - $G_C$       | 960 N         |
| Preload class A - $G_A$       | 240 N         |

|                                         |                |
|-----------------------------------------|----------------|
| Preload class D - $G_D$                 | 1920 N         |
| Calculation factor $f_1$                | 1              |
| Fatigue load limit $P_u$                | 2.55 kN        |
| Calculation factor $f_0$                | 15.5           |
| Calculation factor - $f$                | 1              |
| Calculation factor $f_{2A}$             | 1              |
| Calculation factor $f_{2B}$             | 1.02           |
| Calculation factor $f_{2C}$             | 1.05           |
| Calculation factor $f_{2D}$             | 1.09           |
| Calculation factor $f_{HC}$             | 1              |
| Calculation factor - $f_0$              | 15.5           |
| Fatigue load limit - $P_u$              | 2.6 kN         |
| Limiting speed for oil lubrication      | 17000 mm/min   |
| Calculation factor - $f_{2B}$           | 1.02           |
| Calculation factor - $f_{2A}$           | 1              |
| Calculation factor - $f_{2C}$           | 1.05           |
| Calculation factor - $f_{2D}$           | 1.09           |
| Calculation factor - $f_{HC}$           | 1              |
| Limiting speed for grease lubrication   | 10000 r/min    |
| Basic static load rating $C_0$          | 61 kN          |
| Static axial stiffness, preload class A | 92 N/ $\mu$ m  |
| Static axial stiffness, preload class B | 125 N/ $\mu$ m |
| Static axial stiffness, preload class C | 175 N/ $\mu$ m |
| Static axial stiffness, preload class D | 254 N/ $\mu$ m |
| Attainable speed for grease lubrication | 10000 r/min    |

|                                          |                      |
|------------------------------------------|----------------------|
| Attainable speed for oil-air lubrication | 17000 r/min          |
| Basic static load rating - $C_0$         | 61 kN                |
| Reference grease quantity $G_{ref}$      | 11.1 cm <sup>3</sup> |