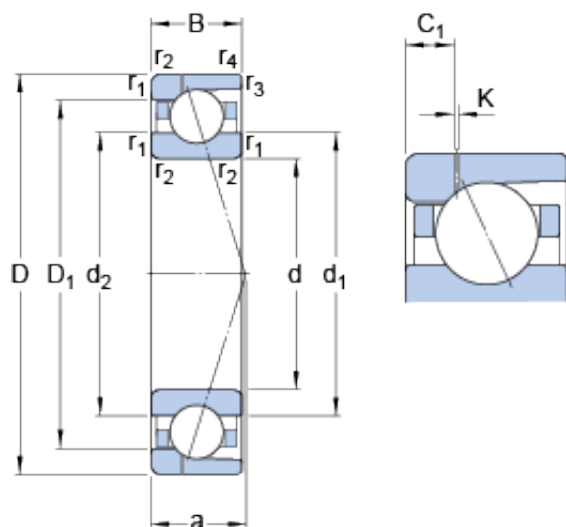




Bearing No. 7016 ACD/HCP4AH1

|                    |                      |
|--------------------|----------------------|
| K                  | 0.5 mm               |
| a                  | 35 mm                |
| d                  | 80 mm                |
| D                  | 125 mm               |
| B                  | 22 mm                |
| Ball - z           | 20                   |
| Size (mm)          | 125x80x22            |
| Width (mm)         | 22                   |
| Mass bearing       | 0.71 kg              |
| $d_n$              | 96.9 mm              |
| $D_1$              | 111.1 mm             |
| $d_1$              | 93.9 mm              |
| $C_1$              | 5.89 mm              |
| $D_1$              | 111.1 mm             |
| $d_2$              | 93.9 mm              |
| $C_1$              | 5.89 mm              |
| $d_1$              | 93.9 mm              |
| $d_n$              | 96.9 mm              |
| $d_2$              | 93.9 mm              |
| Bearing number     | 7016 ACD/HCP4AH1     |
| Preload class B    | 323 N/micron         |
| Preload class A    | 247 N/micron         |
| Preload class D    | 581 N/micron         |
| $G_{ref}$          | 11.1 cm <sup>3</sup> |
| Preload class C    | 429 N/micron         |
| Number of balls z  | 20                   |
| Bore Diameter (mm) | 125                  |
| $r_b$ max.         | 0.6 mm               |
| $r_a$ max.         | 1 mm                 |
|                    |                      |

|                               |           |
|-------------------------------|-----------|
| $D_b$ max.                    | 121 mm    |
| $D_a$ max.                    | 119 mm    |
| $d_a$ min.                    | 86 mm     |
| $d_b$ min.                    | 86 mm     |
| Outer Diameter (mm)           | 80        |
| $r_a$ - max.                  | 1 mm      |
| $D_a$ - max.                  | 119 mm    |
| $d_b$ - min.                  | 86 mm     |
| $d_a$ - min.                  | 86 mm     |
| $r_{1,2}$ min.                | 1.1 mm    |
| $r_{3,4}$ min.                | 0.6 mm    |
| Ball - $D_w$                  | 14.288 mm |
| $r_b$ - max.                  | 0.6 mm    |
| $D_b$ - max.                  | 121 mm    |
| Calculation factor f          | 1.13      |
| Calculation factor e          | 0.68      |
| Calculation factor - f        | 1.13      |
| $r_{1,2}$ - min.              | 1.1 mm    |
| $r_{3,4}$ - min.              | 0.6 mm    |
| Calculation factor - e        | 0.68      |
| Ball diameter $D_w$           | 14.288 mm |
| Basic dynamic load rating C   | 62.4 kN   |
| Preload class A $G_A$         | 390 N     |
| Preload class B $G_B$         | 780 N     |
| Preload class C $G_C$         | 1560 N    |
| Basic dynamic load rating - C | 62.4 kN   |
| Preload class D $G_D$         | 3120 N    |
| Preload class B - $G_B$       | 780 N     |
| Preload class A - $G_A$       | 390 N     |
| Preload class D - $G_D$       | 3120 N    |
|                               |           |

|                                         |                |
|-----------------------------------------|----------------|
| Preload class C - $G_C$                 | 1560 N         |
| Fatigue load limit $P_u$                | 2.45 kN        |
| Calculation factor $f_1$                | 0.99           |
| Calculation factor $f_{2A}$             | 1              |
| Calculation factor $f_{2B}$             | 1.02           |
| Calculation factor $f_{2C}$             | 1.05           |
| Calculation factor $f_{2D}$             | 1.08           |
| Calculation factor $f_{HC}$             | 1.02           |
| Calculation factor - $Y_1$              | 0.92           |
| Calculation factor - $Y_2$              | 1.41           |
| Calculation factor - $Y_0$              | 0.76           |
| Calculation factor - $X_2$              | 0.67           |
| Calculation factor - $f_1$              | 0.99           |
| Limiting speed for oil lubrication      | 18000 mm/min   |
| Fatigue load limit - $P_u$              | 2.4 kN         |
| Calculation factor - $f_{2D}$           | 1.08           |
| Calculation factor - $f_{HC}$           | 1.02           |
| Calculation factor - $f_{2C}$           | 1.05           |
| Calculation factor - $f_{2B}$           | 1.02           |
| Calculation factor - $f_{2A}$           | 1              |
| Limiting speed for grease lubrication   | 12000 r/min    |
| Basic static load rating $C_0$          | 58.5 kN        |
| Static axial stiffness, preload class A | 247 N/ $\mu$ m |
| Static axial stiffness, preload class D | 581 N/ $\mu$ m |
| Static axial stiffness, preload class C | 429 N/ $\mu$ m |
| Static axial stiffness,                 | 323 N/ $\mu$ m |

|                                                       |                      |
|-------------------------------------------------------|----------------------|
| preload class B                                       |                      |
| Attainable speed for grease lubrication               | 12000 r/min          |
| Basic static load rating - $C_0$                      | 58.5 kN              |
| Attainable speed for oil-air lubrication              | 18000 r/min          |
| Reference grease quantity $G_{ref}$                   | 11.1 cm <sup>3</sup> |
| Calculation factor (single, tandem) $Y_2$             | 0.87                 |
| Calculation factor (single, tandem) $Y_0$             | 0.38                 |
| Calculation factor (single, tandem) $X_2$             | 0.41                 |
| Calculation factor (back-to-back, face-to-face) $Y_1$ | 0.92                 |
| Calculation factor (back-to-back, face-to-face) $Y_2$ | 1.41                 |
| Calculation factor (back-to-back, face-to-face) $Y_0$ | 0.76                 |
| Calculation factor (back-to-back, face-to-face) $X_2$ | 0.67                 |