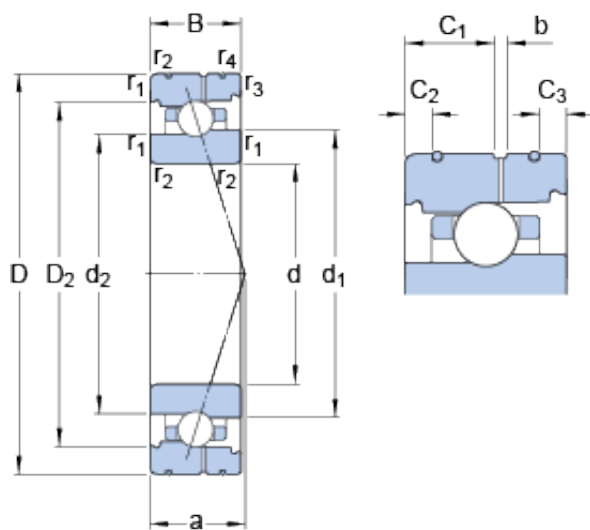




Bearing No. 7008 ACB/HCP4AL

|                   |                 |
|-------------------|-----------------|
| b                 | 1.5 mm          |
| d                 | 40 mm           |
| a                 | 20.2 mm         |
| B                 | 15 mm           |
| D                 | 68 mm           |
| Ball - z          | 26              |
| Size (mm)         | 68x40x15        |
| Width (mm)        | 15              |
| Mass bearing      | 0.2 kg          |
| d <sub>2</sub>    | 49.87 mm        |
| D <sub>2</sub>    | 58.88 mm        |
| d <sub>n</sub>    | 51.6 mm         |
| C <sub>1</sub>    | 7.8 mm          |
| C <sub>2</sub>    | 3.6 mm          |
| C <sub>3</sub>    | 2.6 mm          |
| C <sub>2</sub>    | 3.6 mm          |
| C <sub>1</sub>    | 7.8 mm          |
| d <sub>n</sub>    | 51.6 mm         |
| D <sub>2</sub>    | 58.88 mm        |
| d <sub>2</sub>    | 49.87 mm        |
| d <sub>1</sub>    | 50.95 mm        |
| d <sub>1</sub>    | 50.95 mm        |
| C <sub>3</sub>    | 2.6 mm          |
| Bearing number    | 7008 ACB/HCP4AL |
| Preload class A   | 80 N/micron     |
| Preload class B   | 102 N/micron    |
| G <sub>ref</sub>  | 2.22 cm3        |
| Preload class C   | 153 N/micron    |
| Number of balls z | 26              |

|                               |          |
|-------------------------------|----------|
| Bore Diameter (mm)            | 68       |
| $r_b$ max.                    | 0.6 mm   |
| $r_a$ max.                    | 1 mm     |
| $D_b$ max.                    | 64.8 mm  |
| $D_a$ max.                    | 63.4 mm  |
| $d_a$ min.                    | 44.6 mm  |
| $d_b$ min.                    | 44.6 mm  |
| Outer Diameter (mm)           | 40       |
| $r_b$ - max.                  | 0.6 mm   |
| $r_{3,4}$ min.                | 0.6 mm   |
| $d_b$ - min.                  | 44.6 mm  |
| $D_a$ - max.                  | 63.4 mm  |
| $D_b$ - max.                  | 64.8 mm  |
| $r_{1,2}$ min.                | 1 mm     |
| $d_a$ - min.                  | 44.6 mm  |
| $r_a$ - max.                  | 1 mm     |
| Ball - $D_w$                  | 4.762 mm |
| Calculation factor f          | 1.04     |
| Calculation factor e          | 0.68     |
| $r_{3,4}$ - min.              | 0.6 mm   |
| Calculation factor - f        | 1.04     |
| $r_{1,2}$ - min.              | 1 mm     |
| Calculation factor - e        | 0.68     |
| Ball diameter $D_w$           | 4.762 mm |
| Basic dynamic load rating C   | 9.36 kN  |
| Preload class C $G_C$         | 245 N    |
| Basic dynamic load rating - C | 6.9 kN   |
| Preload class B $G_B$         | 82 N     |
| Preload class A $G_A$         | 41 N     |
| Preload class C - $G_C$       | 245 N    |
|                               |          |

|                                         |                |
|-----------------------------------------|----------------|
| Preload class A - $G_A$                 | 41 N           |
| Preload class B - $G_B$                 | 82 N           |
| Calculation factor $f_1$                | 0.99           |
| Fatigue load limit $P_u$                | 0.224 kN       |
| Calculation factor $f_{HC}$             | 1.01           |
| Calculation factor $f_{2C}$             | 1.05           |
| Calculation factor $f_{2B}$             | 1.02           |
| Calculation factor $f_{2A}$             | 1              |
| Calculation factor - $Y_2$              | 1.41           |
| Calculation factor - $Y_0$              | 0.76           |
| Calculation factor - $X_2$              | 0.67           |
| Limiting speed for oil lubrication      | 48000 mm/min   |
| Calculation factor - $Y_1$              | 0.92           |
| Fatigue load limit - $P_u$              | 0.224 kN       |
| Calculation factor - $f_1$              | 0.99           |
| Calculation factor - $f_{2A}$           | 1              |
| Calculation factor - $f_{HC}$           | 1.01           |
| Calculation factor - $f_{2C}$           | 1.05           |
| Calculation factor - $f_{2B}$           | 1.02           |
| Limiting speed for grease lubrication   | 32000 r/min    |
| Basic static load rating $C_0$          | 8.65 kN        |
| Static axial stiffness, preload class A | 80 N/ $\mu$ m  |
| Static axial stiffness, preload class C | 153 N/ $\mu$ m |
| Static axial stiffness, preload class B | 102 N/ $\mu$ m |
| Attainable speed for grease lubrication | 32000 r/min    |
|                                         |                |

|                                                       |                      |
|-------------------------------------------------------|----------------------|
| Basic static load rating - $C_0$                      | 5.3 kN               |
| Attainable speed for oil-air lubrication              | 48000 r/min          |
| Reference grease quantity $G_{ref}$                   | 2.22 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                 |