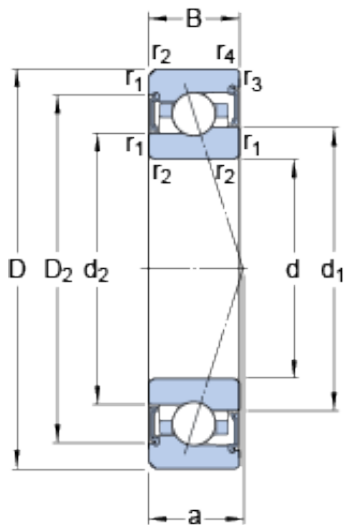




Bearing No. S7002 ACE/HCP4A

|                       |                 |
|-----------------------|-----------------|
| D                     | 32 mm           |
| d                     | 15 mm           |
| B                     | 9 mm            |
| a                     | 10.1 mm         |
| Ball - z              | 12              |
| Size (mm)             | 32x15x9         |
| Width (mm)            | 9               |
| Mass bearing          | 0.026 kg        |
| D <sub>2</sub>        | 28.8 mm         |
| d <sub>2</sub>        | 19.5 mm         |
| d <sub>1</sub>        | 20.65 mm        |
| d <sub>2</sub>        | 19.5 mm         |
| D <sub>2</sub>        | 28.8 mm         |
| d <sub>1</sub>        | 20.65 mm        |
| Bearing number        | S7002 ACE/HCP4A |
| Preload class A       | 44 N/micron     |
| Preload class B       | 66 N/micron     |
| Preload class C       | 73 N/micron     |
| Number of balls z     | 12              |
| r <sub>b</sub> max.   | 0.15 mm         |
| r <sub>a</sub> max.   | 0.3 mm          |
| D <sub>b</sub> max.   | 30.6 mm         |
| D <sub>a</sub> max.   | 30 mm           |
| d <sub>b</sub> max.   | 19.1 mm         |
| d <sub>b</sub> min.   | 17 mm           |
| d <sub>a</sub> max.   | 20.3 mm         |
| Bore Diameter (mm)    | 32              |
| d <sub>a</sub> min.   | 17 mm           |
| Outer Diameter (mm)   | 15              |
| d <sub>a</sub> - max. | 20.3 mm         |

|                               |          |
|-------------------------------|----------|
| $d_a$ - min.                  | 17 mm    |
| Calculation factor e          | 0.68     |
| Calculation factor f          | 1.03     |
| $d_b$ - max.                  | 19.1 mm  |
| $D_a$ - max.                  | 30 mm    |
| $r_a$ - max.                  | 0.3 mm   |
| $r_b$ - max.                  | 0.15 mm  |
| $d_b$ - min.                  | 17 mm    |
| $r_{3,4}$ min.                | 0.15 mm  |
| $r_{1,2}$ min.                | 0.3 mm   |
| Ball - $D_w$                  | 4.762 mm |
| $D_b$ - max.                  | 30.6 mm  |
| $r_{3,4}$ - min.              | 0.15 mm  |
| Calculation factor - f        | 1.03     |
| Calculation factor - e        | 0.68     |
| $r_{1,2}$ - min.              | 0.3 mm   |
| Basic dynamic load rating C   | 4.23 kN  |
| Ball diameter $D_w$           | 4.762 mm |
| Preload class A $G_A$         | 38 N     |
| Basic dynamic load rating - C | 4.2 kN   |
| Preload class C $G_C$         | 230 N    |
| Preload class B $G_B$         | 115 N    |
| Preload class B - $G_B$       | 115 N    |
| Preload class A - $G_A$       | 38 N     |
| Preload class C - $G_C$       | 230 N    |
| Calculation factor $f_1$      | 0.99     |
| Fatigue load limit $P_u$      | 0.078 kN |
| Calculation factor $f_{HC}$   | 1.01     |
| Calculation factor $f_{2C}$   | 1.06     |
| Calculation factor $f_{2B}$   | 1.03     |

|                                                       |               |
|-------------------------------------------------------|---------------|
| Calculation factor $f_{2A}$                           | 1             |
| Calculation factor - $X_2$                            | 0.67          |
| Calculation factor - $Y_0$                            | 0.76          |
| Calculation factor - $Y_1$                            | 0.92          |
| Calculation factor - $f_1$                            | 0.99          |
| Calculation factor - $Y_2$                            | 1.41          |
| Fatigue load limit - $P_u$                            | 0.078 kN      |
| Calculation factor - $f_{2A}$                         | 1             |
| Calculation factor - $f_{2B}$                         | 1.03          |
| Calculation factor - $f_{2C}$                         | 1.06          |
| Calculation factor - $f_{HC}$                         | 1.01          |
| Limiting speed for grease lubrication                 | 75000 r/min   |
| Basic static load rating $C_0$                        | 1.83 kN       |
| Static axial stiffness, preload class C               | 73 N/ $\mu$ m |
| Static axial stiffness, preload class B               | 66 N/ $\mu$ m |
| Attainable speed for grease lubrication               | 75000 r/min   |
| Static axial stiffness, preload class A               | 44 N/ $\mu$ m |
| Basic static load rating - $C_0$                      | 1.8 kN        |
| 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-                             | 1.41          |

|                                                       |      |
|-------------------------------------------------------|------|
| to-back, face-to-face) $Y_2$                          |      |
| Calculation factor (back-to-back, face-to-face) $Y_0$ | 0.76 |
| Calculation factor (back-to-back, face-to-face) $X_2$ | 0.67 |