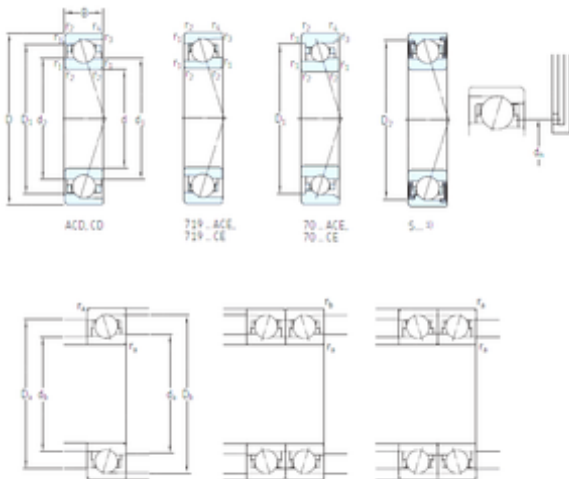




Bearing No. S7024 CB/P4A

|                     |              |
|---------------------|--------------|
| a                   | 34.2 mm      |
| d                   | 120 mm       |
| D                   | 180 mm       |
| B                   | 28 mm        |
| C                   | 28 mm        |
| dh                  | 144,7 mm     |
| D2                  | 161,9 mm     |
| d1                  | 143,2 mm     |
| d2                  | 140,8 mm     |
| D1                  | 161,9 mm     |
| Db max              | 175,4 mm     |
| db min              | 129 mm       |
| Weight              | 2,35 Kg      |
| rb max.             | 1 mm         |
| ra max.             | 2 mm         |
| Da max.             | 171 mm       |
| r3 min.             | 1 mm         |
| da min.             | 129 mm       |
| r4 min.             | 1 mm         |
| r2 min.             | 2 mm         |
| r1 min.             | 2 mm         |
| Size (mm)           | 120x180x28   |
| Width (mm)          | 28           |
| Mass bearing        | 2.35 kg      |
| d <sub>1</sub>      | 143.2 mm     |
| d <sub>2</sub>      | 140.8 mm     |
| D <sub>2</sub>      | 161.9 mm     |
| Bearing number      | S7024 CB/P4A |
| Number of balls z   | 33           |
| d <sub>a</sub> max. | 142.4 mm     |
|                     |              |

|                               |              |
|-------------------------------|--------------|
| $r_a$ max.                    | 2 mm         |
| $D_b$ max.                    | 175.4 mm     |
| $D_a$ max.                    | 171 mm       |
| $d_b$ max.                    | 140 mm       |
| $d_b$ min.                    | 129 mm       |
| Bore Diameter (mm)            | 120          |
| $d_a$ min.                    | 129 mm       |
| $r_b$ max.                    | 1 mm         |
| Outer Diameter (mm)           | 180          |
| $r_{3,4}$ min.                | 1 mm         |
| $r_{1,2}$ min.                | 2 mm         |
| Calculation factor f          | 1.08         |
| (Oil) Lubrication Speed       | 14 000 r/min |
| Fatigue load limit (Pu)       | 1,34         |
| (Grease) Lubrication Speed    | 9 500 r/min  |
| Basic dynamic load rating C   | 50.7 kN      |
| Ball diameter $D_w$           | 11.112 mm    |
| Preload class B $G_B$         | 260 N        |
| Basic static load rating (C0) | 39 kN        |
| Preload class C $G_C$         | 780 N        |
| Preload class A $G_A$         | 75 N         |
| Basic dynamic load rating (C) | 37,7 kN      |
| Fatigue load limit $P_u$      | 1.34 kN      |
| Calculation factor $f_1$      | 1            |
| Calculation factor $f_0$      | 9.8          |
| Calculation factor $f_{2A}$   | 1            |
| Calculation factor $f_{2B}$   | 1.02         |
| Calculation factor $f_{2C}$   | 1.05         |
| Calculation factor $f_{HC}$   | 1            |
|                               |              |

|                                            |                |
|--------------------------------------------|----------------|
| Basic static load rating<br>$C_0$          | 63 kN          |
| Static axial stiffness,<br>preload class A | 75 N/ $\mu$ m  |
| Static axial stiffness,<br>preload class B | 98 N/ $\mu$ m  |
| Static axial stiffness,<br>preload class C | 156 N/ $\mu$ m |
| Attainable speed for<br>grease lubrication | 9500 r/min     |