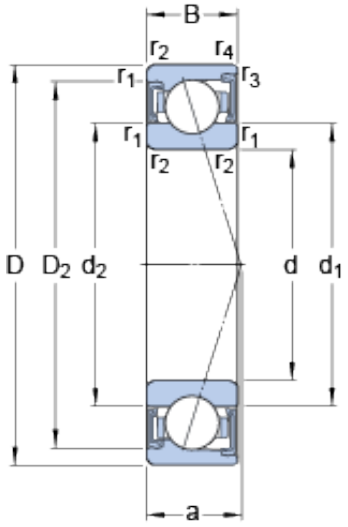
# Loyal | S7213 ACD/HCP4A




**Bearing No. S7213 ACD/HCP4A**

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|---|---|
| D | 120 mm |
| d | 65 mm |
| B | 23 mm |
| a | 33.2 mm |
| Ball - z | 15 |
| Size (mm) | 120x65x23 |
| Width (mm) | 23 |
| Mass bearing | 0.88 kg |
| $D_2$ | 105.3 mm |
| $d_2$ | 82.9 mm |
| $d_1$ | 82.9 mm |
| $d_2$ | 82.9 mm |
| $D_2$ | 105.3 mm |
| $d_1$ | 82.9 mm |
| Bearing number | S7213 ACD/HCP4A |
| Preload class B | 272 N/micron |
| Preload class A | 209 N/micron |
| Preload class D | 485 N/micron |
| Preload class C | 360 N/micron |
| Number of balls z | 15 |
| $r_b$ max. | 0.6 mm |
| $r_a$ max. | 1.5 mm |
| $D_b$ max. | 115.8 mm |
| $D_a$ max. | 111 mm |
| $d_b$ max. | 82.1 mm |
| $d_b$ min. | 74 mm |
| $d_a$ max. | 82.1 mm |
| Bore Diameter (mm) | 120 |
| $d_a$ min. | 74 mm |
| Outer Diameter (mm) | 65 |

| | |
|---|---|
| $d_a$ - max. | 82.1 mm |
| $d_a$ - min. | 74 mm |
| Calculation factor e | 0.68 |
| Calculation factor f | 1.07 |
| $d_b$ - max. | 82.1 mm |
| $D_b$ - max. | 115.8 mm |
| $r_a$ - max. | 1.5 mm |
| $r_b$ - max. | 0.6 mm |
| $d_b$ - min. | 74 mm |
| $r_{3,4}$ min. | 0.6 mm |
| $r_{1,2}$ min. | 1.5 mm |
| Ball - $D_w$ | 15.875 mm |
| $D_a$ - max. | 111 mm |
| $r_{3,4}$ - min. | 0.6 mm |
| $r_{1,2}$ - min. | 1.5 mm |
| Calculation factor - f | 1.07 |
| Calculation factor - e | 0.68 |
| Ball diameter $D_w$ | 15.875 mm |
| Basic dynamic load rating C | 63.7 kN |
| Preload class A $G_A$ | 400 N |
| Basic dynamic load rating - C | 63.7 kN |
| Preload class B $G_B$ | 800 N |
| Preload class C $G_C$ | 1600 N |
| Preload class D $G_D$ | 3200 N |
| Preload class B - $G_B$ | 800 N |
| Preload class C - $G_C$ | 1600 N |
| Preload class A - $G_A$ | 400 N |
| Preload class D - $G_D$ | 3200 N |
| Calculation factor $f_1$ | 0.99 |
| Fatigue load limit $P_u$ | 2.2 kN |

| | |
|---|---|
| Calculation factor $f_{2A}$ | 1 |
| Calculation factor $f_{2B}$ | 1.01 |
| Calculation factor $f_{2C}$ | 1.03 |
| Calculation factor $f_{2D}$ | 1.06 |
| Calculation factor $f_{HC}$ | 1.01 |
| Calculation factor - $X_2$ | 0.67 |
| Calculation factor - $Y_1$ | 0.92 |
| Calculation factor - $Y_2$ | 1.41 |
| Fatigue load limit - $P_u$ | 2.2 kN |
| Calculation factor - $Y_0$ | 0.76 |
| Calculation factor - $f_1$ | 0.99 |
| Calculation factor - $f_{HC}$ | 1.01 |
| Calculation factor - $f_{2D}$ | 1.06 |
| Calculation factor - $f_{2C}$ | 1.03 |
| Calculation factor - $f_{2B}$ | 1.01 |
| Calculation factor - $f_{2A}$ | 1 |
| Limiting speed for grease lubrication | 13000 r/min |
| Basic static load rating $C_0$ | 51 kN |
| Static axial stiffness, preload class D | 485 N/µm |
| Attainable speed for grease lubrication | 13000 r/min |
| Static axial stiffness, preload class C | 360 N/µm |
| Static axial stiffness, preload class B | 272 N/µm |
| Static axial stiffness, preload class A | 209 N/µm |
| Basic static load rating - $C_0$ | 51 kN |
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|---|---|
| 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 |