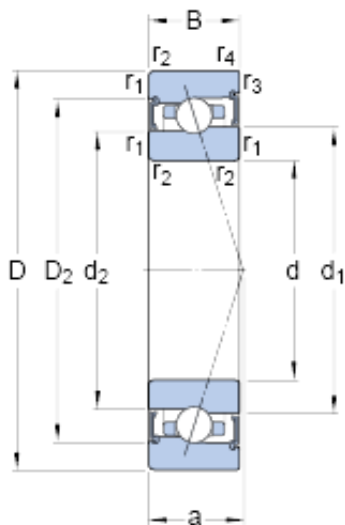




BEARING USA CORP.

55 mm x 90 mm x 18 mm SKF S7011 CB/HCP4A angular contact ball bearings

Bearing No. S7011 CB/HCP4A



S7011 CB/HCP4A Bearing 2D drawings and 3D CAD models

| | |
|---|-------------|
| Size | 90x55x18 mm |
| Bore Diameter | 90 mm |
| Outer Diameter | 55 mm |
| Width | 18 mm |
| d | 55 mm |
| D | 90 mm |
| B | 18 mm |
| d ₁ | 68.18 mm |
| d ₂ | 66.65 mm |
| D ₂ | 79.39 mm |
| r _{1,2} - min. | 1.1 mm |
| r _{3,4} - min. | 0.6 mm |
| a | 18.8 mm |
| d _a - min. | 61 mm |
| d _a - max. | 67.6 mm |
| d _b - min. | 61 mm |
| d _b - max. | 66.1 mm |
| D _a - max. | 84 mm |
| D _b - max. | 86.8 mm |
| r _a - max. | 1 mm |
| r _b - max. | 0.6 mm |
| Basic dynamic load rating - C | 14 kN |
| Basic static load rating - C ₀ | 11 kN |
| Fatigue load limit - P _u | 0.465 kN |



BEARING USA CORP.

| | |
|---------------------------------------|-------------|
| Limiting speed for grease lubrication | 26000 r/min |
| Ball - D_w | 6.747 mm |
| Ball - z | 26 |
| Calculation factor - f_0 | 9.7 |
| Preload class A - G_A | 46 N |
| Preload class B - G_B | 92 N |
| Preload class C - G_C | 275 N |
| Calculation factor - f | 1.06 |
| Calculation factor - f | 1 |
| Calculation factor - f_{2A} | 1 |
| Calculation factor - f_{2B} | 1.02 |
| Calculation factor - f_{2C} | 1.05 |
| Calculation factor - f_{HC} | 1.01 |
| Preload class A | 43 N/micron |
| Preload class B | 56 N/micron |
| Preload class C | 88 N/micron |
| d_1 | 68.18 mm |
| d_2 | 66.65 mm |
| D_2 | 79.39 mm |
| $r_{1,2}$ min. | 1.1 mm |
| $r_{3,4}$ min. | 0.6 mm |
| d_a min. | 61 mm |
| d_a max. | 67.6 mm |
| d_b min. | 61 mm |
| d_b max. | 66.1 mm |
| D_a max. | 84 mm |
| D_b max. | 86.8 mm |
| r_a max. | 1 mm |
| r_b max. | 0.6 mm |
| Basic dynamic load rating C | 18.6 kN |



BEARING USA CORP.

| | |
|---|---------------|
| Basic static load rating C_0 | 19 kN |
| Fatigue load limit P_u | 0.465 kN |
| Attainable speed for grease lubrication | 26000 r/min |
| Ball diameter D_w | 6.747 mm |
| Number of balls z | 26 |
| Preload class A G_A | 46 N |
| Static axial stiffness, preload class A | 43 N/ μ m |
| Preload class B G_B | 92 N |
| Static axial stiffness, preload class B | 56 N/ μ m |
| Preload class C G_C | 275 N |
| Static axial stiffness, preload class C | 88 N/ μ m |
| Calculation factor f | 1.06 |
| Calculation factor f_1 | 1 |
| Calculation factor f_{2A} | 1 |
| Calculation factor f_{2B} | 1.02 |
| Calculation factor f_{2C} | 1.05 |
| Calculation factor f_{HC} | 1.01 |
| Calculation factor f_0 | 9.7 |
| Mass bearing | 0.4 kg |