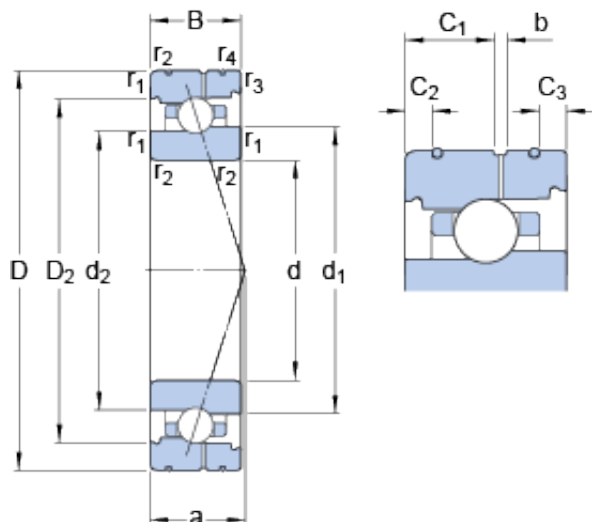




IOR Bearing Manufacturing Co.,Ltd

SKF 71916 ACB/HCP4AL angular contact ball bearings

Bearing No. 71916 ACB/HCP4AL



71916 ACB/HCP4AL Bearing 2D drawings and 3D CAD models

| | |
|-------------------------|--------------|
| Size | 110x80x16 mm |
| Bore Diameter | 110 mm |
| Outer Diameter | 80 mm |
| Width | 16 mm |
| d | 80 mm |
| D | 110 mm |
| B | 16 mm |
| d ₁ | 90.7 mm |
| d ₂ | 89.2 mm |
| D ₂ | 102.2 mm |
| b | 2 mm |
| C ₁ | 8.6 mm |
| C ₂ | 3.8 mm |
| C ₃ | 2.7 mm |
| r _{1,2} - min. | 1 mm |
| r _{3,4} - min. | 0.6 mm |
| a | 35.1 mm |
| d _a - min. | 84.6 mm |
| d _b - min. | 84.6 mm |
| D _a - max. | 105 mm |
| D _b - max. | 106.8 mm |
| r _a - max. | 1 mm |
| r _b - max. | 0.6 mm |
| d _n | 91.7 mm |
| | |



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| | |
|---|----------------------|
| Basic dynamic load rating - C | 14.8 kN |
| Basic static load rating - C ₀ | 14 kN |
| Fatigue load limit - P _u | 0.585 kN |
| Limiting speed for grease lubrication | 17000 r/min |
| Limiting speed for oil lubrication | 26000 mm/min |
| Ball - D _w | 6.747 mm |
| Ball - z | 34 |
| G _{ref} | 5.29 cm ³ |
| Calculation factor - e | 0.68 |
| Calculation factor - Y ₂ | 0.87 |
| Calculation factor - Y ₀ | 0.38 |
| Calculation factor - X ₂ | 0.41 |
| Calculation factor - Y ₁ | 0.92 |
| Calculation factor - Y ₂ | 1.41 |
| Calculation factor - Y ₀ | 0.76 |
| Calculation factor - X ₂ | 0.67 |
| Preload class A - G _A | 87 N |
| Preload class B - G _B | 175 N |
| Preload class C - G _C | 520 N |
| Calculation factor - f | 1.13 |
| Calculation factor - f ₁ | 0.99 |
| Calculation factor - f _{2A} | 1 |
| Calculation factor - f _{2B} | 1.02 |
| Calculation factor - f _{2C} | 1.08 |
| Calculation factor - f _{HC} | 1.01 |
| Preload class A | 142 N/micron |
| Preload class B | 182 N/micron |
| | |



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| | |
|--|----------------------|
| Preload class C | 276 N/micron |
| d_1 | 90.7 mm |
| d_2 | 89.2 mm |
| D_2 | 102.2 mm |
| C_1 | 8.6 mm |
| C_2 | 3.8 mm |
| C_3 | 2.7 mm |
| $r_{1,2}$ min. | 1 mm |
| $r_{3,4}$ min. | 0.6 mm |
| d_a min. | 84.6 mm |
| d_b min. | 84.6 mm |
| D_a max. | 105 mm |
| D_b max. | 106.8 mm |
| r_a max. | 1 mm |
| r_b max. | 0.6 mm |
| d_n | 91.7 mm |
| Basic dynamic load rating C | 19.5 kN |
| Basic static load rating C_0 | 22.4 kN |
| Fatigue load limit P_u | 0.585 kN |
| Attainable speed for grease lubrication | 17000 r/min |
| Attainable speed for oil-air lubrication | 26000 r/min |
| Ball diameter D_w | 6.747 mm |
| Number of balls z | 34 |
| Reference grease quantity G_{ref} | 5.29 cm ³ |
| Preload class A G_A | 87 N |
| Static axial stiffness, preload class A | 142 N/ μ m |
| Preload class B G_B | 175 N |
| Static axial stiffness, preload class B | 182 N/ μ m |
| Preload class C G_C | 520 N |



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| | |
|---|----------------|
| Static axial stiffness, preload class C | 276 N/ μ m |
| Calculation factor f | 1.13 |
| Calculation factor f_1 | 0.99 |
| Calculation factor f_{2A} | 1 |
| Calculation factor f_{2B} | 1.02 |
| Calculation factor f_{2C} | 1.08 |
| Calculation factor f_{HC} | 1.01 |
| Calculation factor e | 0.68 |
| 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 |
| Mass bearing | 0.35 kg |