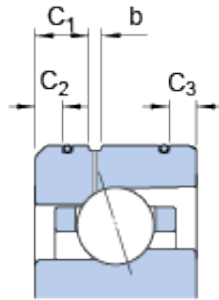
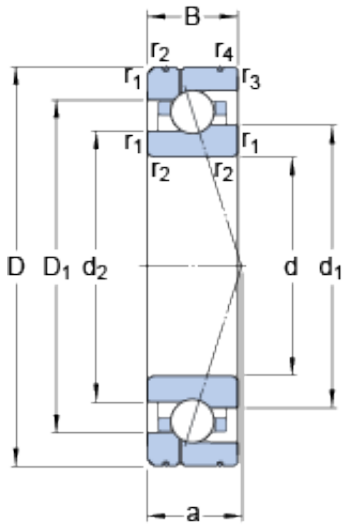




GARLOCK BEARINGS LTD



7008 CE/P4AL1 SKF High Speed Angular Contact Ball Bearings

Bearing No. 7008 CE/P4AL1

7008 CE/P4AL1 Bearing 2D drawings and 3D CAD models

| | |
|-------------------------|-------------|
| Size | 68x40x15 mm |
| Bore Diameter | 68 mm |
| Outer Diameter | 40 mm |
| Width | 15 mm |
| d | 40 mm |
| D | 68 mm |
| B | 15 mm |
| d ₁ | 49.7 mm |
| d ₂ | 47.6 mm |
| D ₁ | 58.25 mm |
| b | 1.4 mm |
| C ₁ | 4.5 mm |
| C ₂ | 2.5 mm |
| C ₃ | 3 mm |
| r _{1,2} - min. | 1 mm |
| r _{3,4} - min. | 0.6 mm |
| a | 14.8 mm |
| d _a - min. | 44.6 mm |
| d _b - min. | 44.6 mm |
| D _a - max. | 63.4 mm |
| D _b - max. | 63.8 mm |
| r _a - max. | 1 mm |
| r _b - max. | 0.6 mm |
| d _n | 51.6 mm |
| | |



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| | |
|---|---------------------|
| Basic dynamic load rating - C | 12.4 kN |
| Basic static load rating - C ₀ | 7.6 kN |
| Fatigue load limit - P _u | 0.32 kN |
| Limiting speed for grease lubrication | 30000 r/min |
| Limiting speed for oil lubrication | 45000 mm/min |
| Ball - D _w | 7.144 mm |
| Ball - z | 19 |
| G _{ref} | 2.8 cm ³ |
| Calculation factor - f ₀ | 8.1 |
| Preload class A - G _A | 65 N |
| Preload class B - G _B | 200 N |
| Preload class C - G _C | 390 N |
| Calculation factor - f | 1.06 |
| Calculation factor - f | 1 |
| Calculation factor - f _{2A} | 1 |
| Calculation factor - f _{2B} | 1.03 |
| Calculation factor - f _{2C} | 1.05 |
| Calculation factor - f _{HC} | 1 |
| Preload class A | 34 N/micron |
| Preload class B | 54 N/micron |
| Preload class C | 73 N/micron |
| d ₁ | 49.7 mm |
| d ₂ | 47.6 mm |
| D ₁ | 58.25 mm |
| C ₁ | 4.5 mm |
| C ₂ | 2.5 mm |
| C ₃ | 3 mm |
| r _{1,2} min. | 1 mm |



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| | |
|--|---------------------|
| $r_{3,4}$ min. | 0.6 mm |
| d_a min. | 44.6 mm |
| d_b min. | 44.6 mm |
| D_a max. | 63.4 mm |
| D_b max. | 63.8 mm |
| r_a max. | 1 mm |
| r_b max. | 0.6 mm |
| d_n | 51.6 mm |
| Basic dynamic load rating C | 12.4 kN |
| Basic static load rating C_0 | 7.65 kN |
| Fatigue load limit P_u | 0.32 kN |
| Attainable speed for grease lubrication | 30000 r/min |
| Attainable speed for oil-air lubrication | 45000 r/min |
| Ball diameter D_w | 7.144 mm |
| Number of balls z | 19 |
| Reference grease quantity G_{ref} | 2.8 cm ³ |
| Preload class A G_A | 65 N |
| Static axial stiffness, preload class A | 34 N/ μ m |
| Preload class B G_B | 200 N |
| Static axial stiffness, preload class B | 54 N/ μ m |
| Preload class C G_C | 390 N |
| Static axial stiffness, preload class C | 73 N/ μ m |
| Calculation factor f | 1.06 |
| Calculation factor f_1 | 1 |
| Calculation factor f_{2A} | 1 |
| Calculation factor f_{2B} | 1.03 |
| Calculation factor f_{2C} | 1.05 |
| Calculation factor f_{HC} | 1 |



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| | |
|--------------------------|---------|
| Calculation factor f_0 | 8.1 |
| Mass bearing | 0.19 kg |