



GARLOCK BEARINGS LTD



S7208 ACD/P4A Bearing 2D drawings and 3D CAD models

S7208 ACD/P4A SKF High Speed Angular Contact Ball Bearings

Bearing No. S7208 ACD/P4A

| | |
|---|-------------|
| Size | 80x40x18 mm |
| Bore Diameter | 80 mm |
| Outer Diameter | 40 mm |
| Width | 18 mm |
| d | 40 mm |
| D | 80 mm |
| B | 18 mm |
| d ₁ | 53.3 mm |
| d ₂ | 53.3 mm |
| D ₂ | 69.7 mm |
| r _{1,2} - min. | 1.1 mm |
| r _{3,4} - min. | 0.6 mm |
| a | 23.1 mm |
| d _a - min. | 47 mm |
| d _a - max. | 52.5 mm |
| d _b - min. | 47 mm |
| d _b - max. | 52.5 mm |
| D _a - max. | 73 mm |
| D _b - max. | 75.8 mm |
| r _a - max. | 1 mm |
| r _b - max. | 0.6 mm |
| Basic dynamic load rating - C | 31.9 kN |
| Basic static load rating - C ₀ | 22.8 kN |
| Fatigue load limit - P _u | 0.98 kN |



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|---------------------------------------|--------------|
| Limiting speed for grease lubrication | 16000 r/min |
| Ball - D_w | 11.112 mm |
| Ball - z | 14 |
| 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 | 200 N |
| Preload class B - G_B | 400 N |
| Preload class C - G_C | 800 N |
| Preload class D - G_D | 1600 N |
| Calculation factor - f | 1.05 |
| Calculation factor - f_1 | 0.99 |
| Calculation factor - f_{2A} | 1 |
| Calculation factor - f_{2B} | 1.01 |
| Calculation factor - f_{2C} | 1.02 |
| Calculation factor - f_{2D} | 1.05 |
| Calculation factor - f_{HC} | 1 |
| Preload class A | 127 N/micron |
| Preload class B | 165 N/micron |
| Preload class C | 218 N/micron |
| Preload class D | 294 N/micron |
| d_1 | 53.3 mm |
| d_2 | 53.3 mm |
| D_2 | 69.7 mm |



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| | |
|---|----------------|
| $r_{1,2}$ min. | 1.1 mm |
| $r_{3,4}$ min. | 0.6 mm |
| d_a min. | 47 mm |
| d_a max. | 52.5 mm |
| d_b min. | 47 mm |
| d_b max. | 52.5 mm |
| D_a max. | 73 mm |
| D_b max. | 75.8 mm |
| r_a max. | 1 mm |
| r_b max. | 0.6 mm |
| Basic dynamic load rating C | 31.9 kN |
| Basic static load rating C_0 | 22.8 kN |
| Fatigue load limit P_u | 0.98 kN |
| Attainable speed for grease lubrication | 16000 r/min |
| Ball diameter D_w | 11.112 mm |
| Number of balls z | 14 |
| Preload class A G_A | 200 N |
| Static axial stiffness, preload class A | 127 N/ μ m |
| Preload class B G_B | 400 N |
| Static axial stiffness, preload class B | 165 N/ μ m |
| Preload class C G_C | 800 N |
| Static axial stiffness, preload class C | 218 N/ μ m |
| Preload class D G_D | 1600 N |
| Static axial stiffness, preload class D | 294 N/ μ m |
| Calculation factor f | 1.05 |
| Calculation factor f_1 | 0.99 |
| Calculation factor f_{2A} | 1 |
| Calculation factor f_{2B} | 1.01 |
| Calculation factor f_{2C} | 1.02 |



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| | |
|---|---------|
| Calculation factor f_{2D} | 1.05 |
| Calculation factor f_{HC} | 1 |
| 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 | 0.38 kg |