



Bearing No. S7009 ACD/P4A

| | |
|---------------------|---------------|
| a | 22.1 mm |
| d | 45 mm |
| D | 75 mm |
| B | 16 mm |
| C | 16 mm |
| dh | 56,2 mm |
| D2 | 68,3 mm |
| d1 | 54,2 mm |
| d2 | 54,2 mm |
| D1 | 65,8 mm |
| Db max | 73 mm |
| db min | 49,6 mm |
| Weight | 0,24 Kg |
| rb max. | 0,3 mm |
| ra max. | 1 mm |
| Da max. | 70,4 mm |
| r3 min. | 0,3 mm |
| da min. | 49,6 mm |
| r4 min. | 0,3 mm |
| r2 min. | 1 mm |
| r1 min. | 1 mm |
| Size (mm) | 45x75x16 |
| Width (mm) | 16 |
| Mass bearing | 0.24 kg |
| d ₁ | 54.2 mm |
| D ₂ | 68.3 mm |
| d ₂ | 54.2 mm |
| Bearing number | S7009 ACD/P4A |
| Number of balls z | 17 |
| d _a max. | 53.7 mm |

| | |
|-------------------------------|--------------|
| d_a min. | 49.6 mm |
| Bore Diameter (mm) | 45 |
| d_b min. | 49.6 mm |
| d_b max. | 53.7 mm |
| D_a max. | 70.4 mm |
| D_b max. | 73 mm |
| r_a max. | 1 mm |
| r_b max. | 0.3 mm |
| Outer Diameter (mm) | 75 |
| Calculation factor e | 0.68 |
| Calculation factor f | 1.09 |
| $r_{1,2}$ min. | 1 mm |
| $r_{3,4}$ min. | 0.3 mm |
| Fatigue load limit (Pu) | 0,9 |
| (Oil) Lubrication Speed | 26 000 r/min |
| (Grease) Lubrication Speed | 17 000 r/min |
| Ball diameter D_w | 9.525 mm |
| Basic dynamic load rating C | 27.6 kN |
| Preload class A G_A | 170 N |
| Basic dynamic load rating (C) | 27,6 kN |
| Preload class B G_B | 340 N |
| Preload class C G_C | 680 N |
| Preload class D G_D | 1360 N |
| Basic static load rating (C0) | 21,6 kN |
| Calculation factor f_1 | 0.99 |
| Fatigue load limit P_u | 0.9 kN |
| Calculation factor f_{2B} | 1.02 |
| Calculation factor f_{HC} | 1 |
| Calculation factor f_{2D} | 1.08 |
| | |

| | |
|---|----------------|
| Calculation factor f_{2C} | 1.05 |
| Calculation factor f_{2A} | 1 |
| Basic static load rating C_0 | 21.6 kN |
| Static axial stiffness, preload class D | 309 N/ μ m |
| Static axial stiffness, preload class C | 229 N/ μ m |
| Static axial stiffness, preload class B | 173 N/ μ m |
| Attainable speed for grease lubrication | 17000 r/min |
| Static axial stiffness, preload class A | 132 N/ μ m |
| 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 |