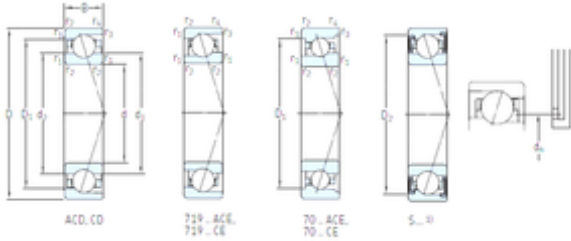


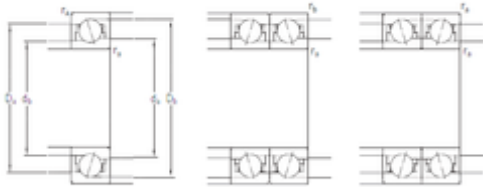


BEARING PRECISION AXLE CORP.



S71910 ACE/P4A SKF High Speed Angular Contact Ball Bearings

Bearing No. S71910 ACE/P4A



S71910 ACE/P4A Bearing 2D drawings and 3D CAD models

| | |
|-------------------------------|-------------|
| Size | 50x72x12 mm |
| Bore Diameter | 50 mm |
| Outer Diameter | 72 mm |
| Width | 12 mm |
| d | 50 mm |
| D | 72 mm |
| B | 12 mm |
| C | 12 mm |
| d1 | 56,7 mm |
| d2 | 54,9 mm |
| r1 min. | 0,6 mm |
| r2 min. | 0,6 mm |
| r3 min. | 0,3 mm |
| r4 min. | 0,3 mm |
| D1 | 65,3 mm |
| D2 | 67,7 mm |
| da min. | 53,2 mm |
| Da max. | 68,8 mm |
| db min | 52 mm |
| ra max. | 0,6 mm |
| rb max. | 0,3 mm |
| dh | 58,4 mm |
| Db max | 70 mm |
| Weight | 0,13 Kg |
| Basic dynamic load rating (C) | 12,1 kN |



BEARING PRECISION AXLE CORP.

| | |
|---|--------------|
| Basic static load rating (C0) | 8,15 kN |
| (Grease) Lubrication Speed | 23 000 r/min |
| (Oil) Lubrication Speed | 36 000 r/min |
| Fatigue load limit (Pu) | 0,345 |
| d ₁ | 56.7 mm |
| d ₂ | 54.9 mm |
| D ₂ | 67.7 mm |
| r _{1,2} min. | 0.6 mm |
| r _{3,4} min. | 0.3 mm |
| a | 21.2 mm |
| d _a min. | 53.2 mm |
| d _a max. | 56.1 mm |
| d _b min. | 52 mm |
| d _b max. | 54.5 mm |
| D _a max. | 68.8 mm |
| D _b max. | 70 mm |
| r _a max. | 0.6 mm |
| r _b max. | 0.3 mm |
| Basic dynamic load rating C | 12.1 kN |
| Basic static load rating C ₀ | 8.15 kN |
| Fatigue load limit P _u | 0.345 kN |
| Attainable speed for grease lubrication | 23000 r/min |
| Ball diameter D _w | 7.144 mm |
| Number of balls z | 21 |
| Preload class A G _A | 110 N |
| Static axial stiffness, preload class A | 96 N/ μ m |
| Preload class B G _B | 330 N |
| Static axial stiffness, preload class B | 145 N/ μ m |
| Preload class C G _C | 660 N |
| Static axial stiffness, preload | 190 N/ μ m |



BEARING PRECISION AXLE CORP.

| | |
|---|---------|
| class C | |
| Calculation factor f | 1.15 |
| Calculation factor f_1 | 0.99 |
| Calculation factor f_{2A} | 1 |
| Calculation factor f_{2B} | 1.04 |
| Calculation factor f_{2C} | 1.07 |
| 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 | 0.13 kg |