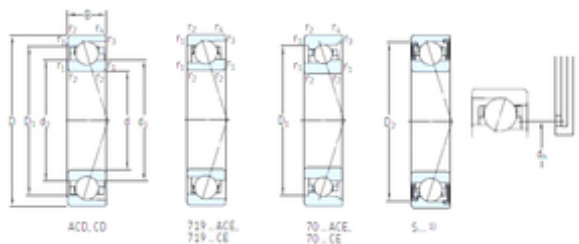


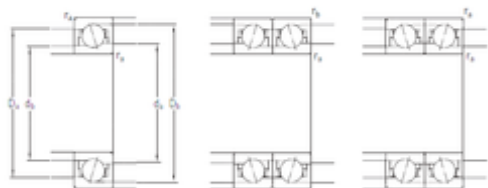


NUP BEARING LTD



45 mm x 75 mm x 16 mm skf S7009 ACB/P4A
Super-precision Angular contact ball bearings

Bearing No. S7009 ACB/P4A



S7009 ACB/P4A Bearing 2D drawings and 3D CAD models

Size	45x75x16 mm
Bore Diameter	45 mm
Outer Diameter	75 mm
Width	16 mm
d	45 mm
D	75 mm
B	16 mm
C	16 mm
d1	56,4 mm
d2	55,2 mm
r1 min.	1 mm
r2 min.	1 mm
r3 min.	0,6 mm
r4 min.	0,6 mm
D1	65,6 mm
D2	65,6 mm
da min.	49,6 mm
Da max.	70,4 mm
db min	49,6 mm
ra max.	1 mm
rb max.	0,6 mm
dh	57,2 mm
Db max	71,8 mm
Weight	0,26 Kg
Basic dynamic load rating (C)	9,04 kN



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Basic static load rating (C0)	6,8 kN
(Grease) Lubrication Speed	24 000 r/min
(Oil) Lubrication Speed	36 000 r/min
Fatigue load limit (Pu)	0,285
d ₁	56.44 mm
d ₂	55.17 mm
D ₂	65.58 mm
r _{1,2} min.	1 mm
r _{3,4} min.	0.6 mm
a	22.1 mm
d _a min.	49.6 mm
d _a max.	55.8 mm
d _b min.	49.6 mm
d _b max.	54.6 mm
D _a max.	70.4 mm
D _b max.	71.8 mm
r _a max.	1 mm
r _b max.	0.6 mm
Basic dynamic load rating C	12.1 kN
Basic static load rating C ₀	11.4 kN
Fatigue load limit P _u	0.285 kN
Attainable speed for grease lubrication	24000 r/min
Ball diameter D _w	5.556 mm
Number of balls z	25
Preload class A G _A	138 N
Static axial stiffness, preload class A	79 N/ μ m
Preload class B G _B	110 N
Static axial stiffness, preload class B	103 N/ μ m
Preload class C G _C	330 N
Static axial stiffness, preload	157 N/ μ m



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class C	
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}	1.04
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	0.26 kg