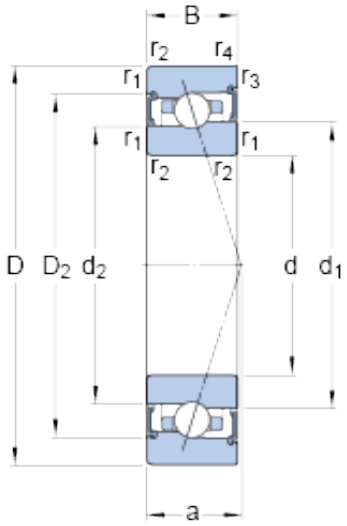

S7009 ACB/HCP4A Bearing 2D drawings and 3D CAD models

45 mm x 75 mm x 16 mm SKF S7009 ACB/HCP4A angular contact ball bearings

Bearing No. S7009 ACB/HCP4A

Size	45x75x16 mm
Bore Diameter	45 mm
Outer Diameter	75 mm
Width	16 mm
d	45 mm
D	75 mm
B	16 mm
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	9 kN
Basic static load rating - C_0	6.8 kN
Fatigue load limit - P_u	0.285 kN

Limiting speed for grease lubrication	28000 r/min
Ball - D_w	5.556 mm
Ball - z	25
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	54 N
Preload class B - G_B	110 N
Preload class C - G_C	330 N
Calculation factor - f	1.05
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{HC}	1.01
Preload class A	91 N/micron
Preload class B	115 N/micron
Preload class C	175 N/micron
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
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	28000 r/min
Ball diameter D_w	5.556 mm
Number of balls z	25
Preload class A G_A	54 N
Static axial stiffness, preload class A	91 N/µm
Preload class B G_B	110 N
Static axial stiffness, preload class B	115 N/µm
Preload class C G_C	330 N
Static axial stiffness, preload class C	175 N/µm
Calculation factor f	1.05
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1.01
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	0.25 kg