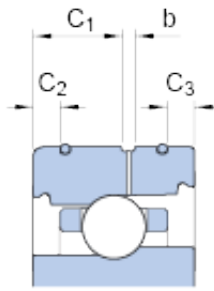
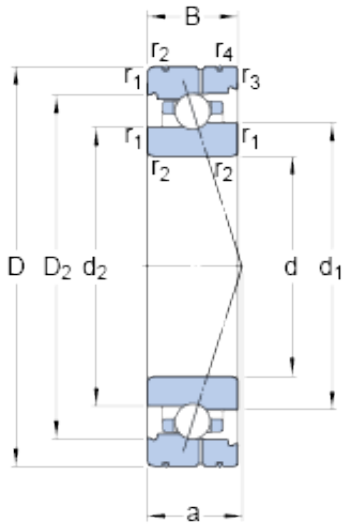




Timken BEARING MFG.CORP



45 mm x 75 mm x 16 mm SKF 7009 ACB/P4AL
angular contact ball bearings

Bearing No. 7009 ACB/P4AL

7009 ACB/P4AL Bearing 2D drawings and 3D CAD models

Size	75x45x16 mm
Bore Diameter	75 mm
Outer Diameter	45 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
b	1.5 mm
C ₁	8.6 mm
C ₂	3.6 mm
C ₃	2.6 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 _b - min.	49.6 mm
D _a - max.	70.4 mm
D _b - max.	71.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	57.2 mm



Timken BEARING MFG.CORP

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	24000 r/min
Limiting speed for oil lubrication	36000 mm/min
Ball - D _w	5.556 mm
Ball - z	25
G _{ref}	2.93 cm ³
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}	1.01
Calculation factor - f _{2C}	1.04
Calculation factor - f _{HC}	1
Preload class A	79 N/micron
Preload class B	103 N/micron



Timken BEARING MFG.CORP

Preload class C	157 N/micron
d_1	56.44 mm
d_2	55.17 mm
D_2	65.58 mm
C_1	8.6 mm
C_2	3.6 mm
C_3	2.6 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	49.6 mm
d_b min.	49.6 mm
D_a max.	70.4 mm
D_b max.	71.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	57.2 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
Attainable speed for oil-air lubrication	36000 r/min
Ball diameter D_w	5.556 mm
Number of balls z	25
Reference grease quantity G_{ref}	2.93 cm ³
Preload class A G_A	54 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



Timken BEARING MFG.CORP

Static axial stiffness, preload class C	157 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}	1.04
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