



Bearing No. S7009 CB/P4A

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
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.6 mm
a	16.1 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	9.6 kN
Basic static load rating - C ₀	7.2 kN
Fatigue load limit - P _u	0.305 kN
Limiting speed for grease lubrication	26000 r/min
Ball - D _w	5.556 mm
Ball - z	25

Calculation factor - f_0	9.6
Preload class A - G_A	31 N
Preload class B - G_B	62 N
Preload class C - G_C	185 N
Calculation factor - f	1.05
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{HC}	1
Preload class A	31 N/micron
Preload class B	40 N/micron
Preload class C	64 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	13 kN
Basic static load rating C_0	12.2 kN
Fatigue load limit P_u	0.305 kN

Attainable speed for grease lubrication	26000 r/min
Ball diameter D_w	5.556 mm
Number of balls z	25
Preload class A G_A	31 N
Static axial stiffness, preload class A	31 N/ μ m
Preload class B G_B	62 N
Static axial stiffness, preload class B	40 N/ μ m
Preload class C G_C	185 N
Static axial stiffness, preload class C	64 N/ μ m
Calculation factor f	1.05
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1
Calculation factor f_0	9.6
Mass bearing	0.26 kg