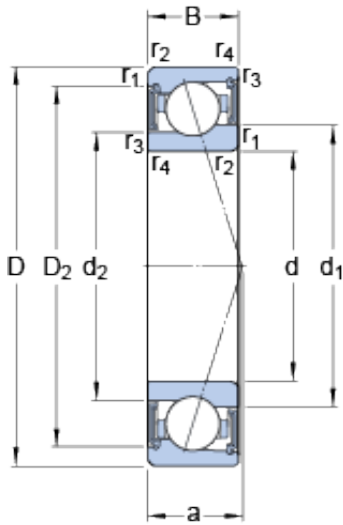




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45 mm x 68 mm x 12 mm SKF S71909 ACE/HCP4A angular contact ball bearings

Bearing No. S71909 ACE/HCP4A



S71909 ACE/HCP4A Bearing 2D drawings and 3D CAD models

Size	68x45x12 mm
Bore Diameter	68 mm
Outer Diameter	45 mm
Width	12 mm
d	45 mm
D	68 mm
B	12 mm
d ₁	52.7 mm
d ₂	51 mm
D ₂	62.6 mm
r _{1,2} - min.	0.6 mm
r _{3,4} - min.	0.3 mm
a	20 mm
d _a - min.	48.2 mm
d _a - max.	52.1 mm
d _b - min.	47 mm
d _b - max.	50.4 mm
D _a - max.	64.8 mm
D _b - max.	66 mm
r _a - max.	0.6 mm
r _b - max.	0.3 mm
Basic dynamic load rating - C	9.8 kN
Basic static load rating - C ₀	6.6 kN
Fatigue load limit - P _u	0.275 kN



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Limiting speed for grease lubrication	30000 r/min
Ball - D_w	6.35 mm
Ball - z	21
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	88 N
Preload class B - G_B	265 N
Preload class C - G_C	529 N
Calculation factor - f	1.09
Calculation factor - f_1	0.98
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.04
Calculation factor - f_{2C}	1.08
Calculation factor - f_{HC}	1.01
Preload class A	94 N/micron
Preload class B	141 N/micron
Preload class C	185 N/micron
d_1	52.7 mm
d_2	51 mm
D_2	62.6 mm
$r_{1,2}$ min.	0.6 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	48.2 mm



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d_a max.	52.1 mm
d_b min.	47 mm
d_b max.	50.4 mm
D_a max.	64.8 mm
D_b max.	66 mm
r_a max.	0.6 mm
r_b max.	0.3 mm
Basic dynamic load rating C	9.75 kN
Basic static load rating C_0	6.55 kN
Fatigue load limit P_u	0.275 kN
Attainable speed for grease lubrication	30000 r/min
Ball diameter D_w	6.35 mm
Number of balls z	21
Preload class A G_A	88 N
Static axial stiffness, preload class A	94 N/ μ m
Preload class B G_B	265 N
Static axial stiffness, preload class B	141 N/ μ m
Preload class C G_C	529 N
Static axial stiffness, preload class C	185 N/ μ m
Calculation factor f	1.09
Calculation factor f_1	0.98
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.04
Calculation factor f_{2C}	1.08
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



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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	0.11 kg