



45 mm x 75 mm x 16 mm Da max. SKF 7009 ACD/HCP4AH Double-Row Angular Contact Ball Bearings

Bearing No. 7009 ACD/HCP4AH

7009 ACD/HCP4AH Bearing 2D drawings and 3D CAD models

d	45 mm
D	75 mm
B	16 mm
d ₁	54.2 mm
d ₂	54.2 mm
D ₁	65.8 mm
K	0.5 mm
C ₁	9.45 mm
r _{1,2} min.	1 mm
r _{3,4} min.	0.3 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.	73 mm
r _a max.	1 mm
r _b max.	0.3 mm
d _n	56.2 mm
Basic dynamic load rating C	27.6 kN
Basic static load rating C ₀	21.6 kN
Fatigue load limit P _u	0.9 kN
Attainable speed for grease lubrication	20000 r/min
Attainable speed for oil-air lubrication	32000 r/min



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Ball diameter D_w	9.525 mm
Number of balls z	17
Reference grease quantity G_{ref}	3.3 cm ³
Preload class A G_A	170 N
Static axial stiffness, preload class A	146 N/ μ m
Preload class B G_B	340 N
Static axial stiffness, preload class B	192 N/ μ m
Preload class C G_C	680 N
Static axial stiffness, preload class C	254 N/ μ m
Preload class D G_D	1360 N
Static axial stiffness, preload class D	343 N/ μ m
Calculation factor f	1.09
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_{2D}	1.08
Calculation factor f_{HC}	1.02
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



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Calculation factor (back-to-back, face-to-face) X_2	0.67
Mass bearing	0.2 kg