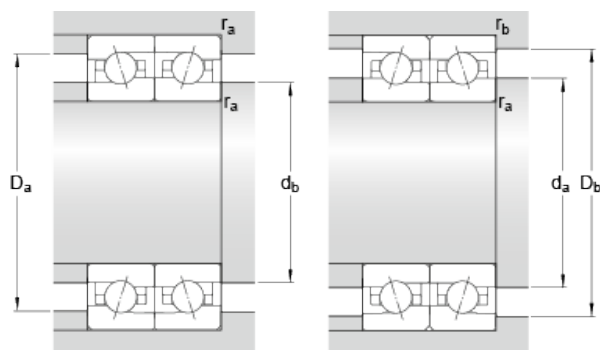




ISOSTATIC BEARING LIMITED



7004 ACE/HCP4BVG275 SKF High Speed Angular Contact Ball Bearings

Bearing No. 7004 ACE/HCP4BVG275

7004 ACE/HCP4BVG275 Bearing 2D drawings and 3D CAD models

d	20 mm
D	42 mm
B	12 mm
d ₁	26.6 mm
d ₂	24.8 mm
D ₁	34.21 mm
r _{1,2} min.	0.6 mm
r _{3,4} min.	0.3 mm
a	13.2 mm
d _a min.	22 mm
d _b min.	22 mm
D _a max.	40 mm
D _b max.	39.6 mm
r _a max.	0.6 mm
r _b max.	0.3 mm
Basic dynamic load rating C	7.15 kN
Basic static load rating C ₀	3.25 kN
Fatigue load limit P _u	0.137 kN
Attainable speed for grease lubrication	58000 r/min
Ball diameter D _w	6.35 mm
Number of balls z	12
Reference grease quantity G _{ref}	1.1 cm ³
Preload class A G _A	64 N
Static axial stiffness, preload	58 N/μm



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class A	
Preload class B G_B	193 N
Static axial stiffness, preload class B	86 N/ μ m
Preload class C G_C	390 N
Static axial stiffness, preload class C	113 N/ μ m
Calculation factor f	1.04
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.03
Calculation factor f_{2C}	1.06
Calculation factor f_{HC}	1.01
Calculation factor e	0.68
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (back-to-back, face-to-face) Y_1	0.92
Calculation factor (back-to-back, face-to-face) Y_2	1.41
Mass bearing	0.056 kg