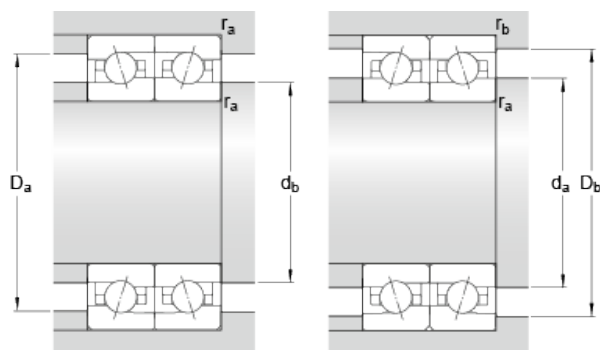




ISOSTATIC BEARING LIMITED



7005 ACE/HCP4BVG275 SKF High Speed Angular Contact Ball Bearings

Bearing No. 7005 ACE/HCP4BVG275

7005 ACE/HCP4BVG275 Bearing 2D drawings and 3D CAD models

d	25 mm
D	47 mm
B	12 mm
d ₁	31.6 mm
d ₂	29.8 mm
D ₁	39.21 mm
r _{1,2} min.	0.6 mm
r _{3,4} min.	0.3 mm
a	14.4 mm
d _a min.	28.2 mm
d _b min.	28.2 mm
D _a max.	43.8 mm
D _b max.	44.6 mm
r _a max.	0.6 mm
r _b max.	0.3 mm
Basic dynamic load rating C	7.93 kN
Basic static load rating C ₀	3.9 kN
Fatigue load limit P _u	0.166 kN
Attainable speed for grease lubrication	50000 r/min
Ball diameter D _w	6.35 mm
Number of balls z	14
Reference grease quantity G _{ref}	1.3 cm ³
Preload class A G _A	70 N
Static axial stiffness, preload	66 N/μm



ISOSTATIC BEARING LIMITED

class A	
Preload class B G_B	210 N
Static axial stiffness, preload class B	98 N/ μ m
Preload class C G_C	430 N
Static axial stiffness, preload class C	130 N/ μ m
Calculation factor f	1.05
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	0.065 kg