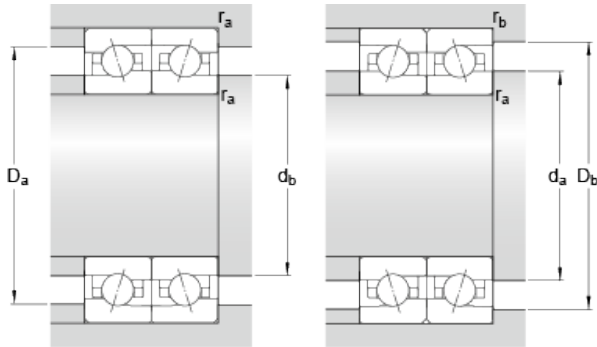




BEARING PRECISION AXLE CORP.



7009 ACE/P4BVG275 SKF High Speed Angular Contact Ball Bearings

Bearing No. 7009 ACE/P4BVG275

7009 ACE/P4BVG275 Bearing 2D drawings and 3D CAD models

d	45 mm
D	75 mm
B	16 mm
d ₁	55.7 mm
d ₂	53.6 mm
D ₁	64.25 mm
r _{1,2} min.	1 mm
r _{3,4} min.	0.6 mm
a	22.2 mm
d _a min.	49.6 mm
d _b min.	49.6 mm
D _a max.	70.4 mm
D _b max.	70.8 mm
r _a max.	1 mm
r _b max.	0.6 mm
Basic dynamic load rating C	12.1 kN
Basic static load rating C ₀	8.15 kN
Fatigue load limit P _u	0.345 kN
Attainable speed for grease lubrication	24000 r/min
Ball diameter D _w	7.144 mm
Number of balls z	21
Reference grease quantity G _{ref}	3.4 cm ³
Preload class A G _A	110 N
Static axial stiffness, preload	94 N/ μ m



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class A	
Preload class B G_B	330 N
Static axial stiffness, preload class B	140 N/ μ m
Preload class C G_C	660 N
Static axial stiffness, preload class C	183 N/ μ m
Calculation factor f	1.06
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
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	0.24 kg