



SKF 7010 ACE/HCP4BVG275 PRECISION BALL BEARINGS

Bearing No. 7010 ACE/HCP4BVG275

7010 ACE/HCP4BVG275 Bearing 2D drawings and 3D CAD models

d	50 mm
D	80 mm
B	16 mm
d ₁	60.25 mm
d ₂	57.9 mm
D ₁	69.75 mm
r _{1,2} min.	1 mm
r _{3,4} min.	0.6 mm
a	23.3 mm
d _a min.	54.6 mm
d _b min.	54.6 mm
D _a max.	75.4 mm
D _b max.	75.8 mm
r _a max.	1 mm
r _b max.	0.6 mm
Basic dynamic load rating C	14.8 kN
Basic static load rating C ₀	10 kN
Fatigue load limit P _u	0.425 kN
Attainable speed for grease lubrication	27000 r/min
Ball diameter D _w	7.938 mm
Number of balls z	21
Reference grease quantity G _{ref}	4.1 cm ³
Preload class A G _A	130 N
Static axial stiffness, preload	115 N/ μ m



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class A	
Preload class B G_B	400 N
Static axial stiffness, preload class B	173 N/ μ m
Preload class C G_C	800 N
Static axial stiffness, preload class C	227 N/ μ m
Calculation factor f	1.08
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	0.23 kg