



70 mm x 110 mm x 20 mm Calculation factor
(back-to-back, face-to-face) Y1 SKF 7014
ACDTP/HCP4B Double-Row Angular Contact
Ball Bearings

Bearing No. 7014 ACDTP/HCP4B

7014 ACDTP/HCP4B Bearing 2D drawings and 3D
CAD models

d	70 mm
D	110 mm
B	20 mm
d ₁	82.3 mm
d ₂	82.3 mm
D ₁	97.7 mm
r _{1,2} min.	1.1 mm
r _{3,4} min.	0.6 mm
a	31.1 mm
d _a min.	76 mm
d _b min.	76 mm
D _a max.	104 mm
D _b max.	106 mm
r _a max.	1 mm
r _b max.	0.6 mm
Basic dynamic load rating C	48.8 kN
Basic static load rating C ₀	44 kN
Fatigue load limit P _u	1.86 kN
Attainable speed for grease lubrication	13000 r/min
Ball diameter D _w	12.7 mm
Number of balls z	19
Reference grease quantity G _{ref}	8.1 cm ³



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Preload class A G_A	300 N
Static axial stiffness, preload class A	212 N/ μ m
Preload class B G_B	600 N
Static axial stiffness, preload class B	276 N/ μ m
Preload class C G_C	1200 N
Static axial stiffness, preload class C	366 N/ μ m
Preload class D G_D	2400 N
Static axial stiffness, preload class D	496 N/ μ m
Calculation factor f	1.12
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 (back-to-back, face-to-face) Y_1	0.92
Calculation factor (back-to-back, face-to-face) Y_2	1.41
Mass bearing	0.5 kg