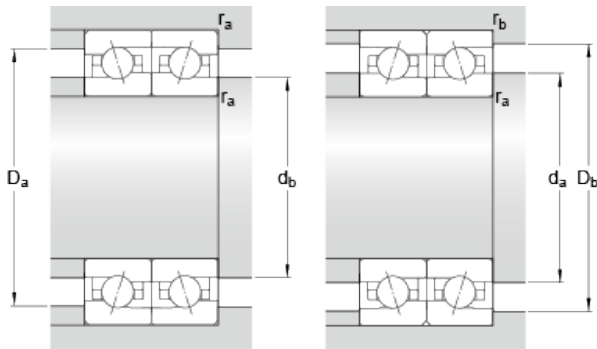




# NTL BEARINGS LTD.



## 7014 CE/HCP4BVG275 SKF High Speed Angular Contact Ball Bearings

Bearing No. 7014 CE/HCP4BVG275

7014 CE/HCP4BVG275 Bearing 2D drawings and 3D CAD models

d	70 mm
D	110 mm
B	20 mm
d <sub>1</sub>	84.3 mm
d <sub>2</sub>	81.6 mm
D <sub>1</sub>	95.32 mm
r <sub>1,2</sub> min.	1.1 mm
r <sub>3,4</sub> min.	0.6 mm
a	22.2 mm
d <sub>a</sub> min.	76 mm
d <sub>b</sub> min.	76 mm
D <sub>a</sub> max.	104 mm
D <sub>b</sub> max.	105.8 mm
r <sub>a</sub> max.	1 mm
r <sub>b</sub> max.	0.6 mm
Basic dynamic load rating C	23.8 kN
Basic static load rating C <sub>0</sub>	18.3 kN
Fatigue load limit P <sub>u</sub>	0.78 kN
Attainable speed for grease lubrication	20500 r/min
Ball diameter D <sub>w</sub>	9.525 mm
Number of balls z	25
Reference grease quantity G <sub>ref</sub>	8.2 cm <sup>3</sup>
Preload class A G <sub>A</sub>	130 N
Static axial stiffness, preload	64 N/μm



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class A	
Preload class B $G_B$	380 N
Static axial stiffness, preload class B	98 N/ $\mu$ m
Preload class C $G_C$	760 N
Static axial stiffness, preload class C	133 N/ $\mu$ m
Calculation factor f	1.09
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.03
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{HC}$	1.01
Calculation factor $f_0$	8.4
Mass bearing	0.56 kg