



SKF 7019 CE/HCP4AH1 Super Precision Angular Contact bearings

Bearing No. 7019 CE/HCP4AH1

7019 CE/HCP4AH1 Bearing 2D drawings and 3D CAD models

d	95 mm
D	145 mm
B	24 mm
d ₁	112.38 mm
d ₂	109.2 mm
D ₁	127.61 mm
K	0.5 mm
C ₁	7.81 mm
r _{1,2} min.	1.5 mm
r _{3,4} min.	1 mm
a	28.2 mm
d _a min.	102 mm
d _b min.	102 mm
D _a max.	138 mm
D _b max.	139.4 mm
r _a max.	1.5 mm
r _b max.	1 mm
d _n	115.4 mm
Basic dynamic load rating C	44.2 kN
Basic static load rating C ₀	38 kN
Fatigue load limit P _u	1.46 kN
Attainable speed for grease lubrication	15000 r/min
Attainable speed for oil-air lubrication	23000 r/min
Ball diameter D _w	12.7 mm



Hmg Industriebedarf GmbH

Number of balls z	26
Reference grease quantity G_{ref}	17 cm ³
Preload class A G_A	230 N
Static axial stiffness, preload class A	93 N/ μ m
Preload class B G_B	700 N
Static axial stiffness, preload class B	148 N/ μ m
Preload class C G_C	1400 N
Static axial stiffness, preload class C	204 N/ μ m
Calculation factor f	1.11
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	9.4
Mass bearing	1.08 kg