



71920 CE/P4A Bearing 2D drawings and 3D CAD models

100 mm x 140 mm x 20 mm SKF 71920 CE/P4A angular contact ball bearings

Bearing No. 71920 CE/P4A

Size	140x100x20 mm
Bore Diameter	140 mm
Outer Diameter	100 mm
Width	20 mm
d	100 mm
D	140 mm
B	20 mm
d ₁	112.4 mm
d ₂	109 mm
D ₁	127.51 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	26.7 mm
d _a - min.	106 mm
d _b - min.	103.2 mm
D _a - max.	134 mm
D _b - max.	136.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	115.4 mm
Basic dynamic load rating - C	39 kN
Basic static load rating - C ₀	31.5 kN
Fatigue load limit - P _u	1.2 kN
Limiting speed for grease	13300 r/min

Lubrication	
Limiting speed for oil lubrication	20500 mm/min
Ball - D_w	12.7 mm
Ball - z	24
G_{ref}	10 cm3
Calculation factor - f_0	8.5
Preload class A - G_A	208 N
Preload class B - G_B	624 N
Preload class C - G_C	1250 N
Calculation factor - f	1.18
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.04
Calculation factor - f_{2C}	1.08
Calculation factor - f_{HC}	1
Preload class A	73 N/micron
Preload class B	116 N/micron
Preload class C	160 N/micron
d_1	112.4 mm
d_2	109 mm
D_1	127.51 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	106 mm
d_b min.	103.2 mm
D_a max.	134 mm
D_b max.	136.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	115.4 mm

Basic dynamic load rating C	39 kN
Basic static load rating C_0	31.5 kN
Fatigue load limit P_u	1.2 kN
Attainable speed for grease lubrication	13300 r/min
Attainable speed for oil-air lubrication	20500 r/min
Ball diameter D_w	12.7 mm
Number of balls z	24
Reference grease quantity G_{ref}	10 cm ³
Preload class A G_A	208 N
Static axial stiffness, preload class A	73 N/ μ m
Preload class B G_B	624 N
Static axial stiffness, preload class B	116 N/ μ m
Preload class C G_C	1250 N
Static axial stiffness, preload class C	160 N/ μ m
Calculation factor f	1.18
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.04
Calculation factor f_{2C}	1.08
Calculation factor f_{HC}	1
Calculation factor f_0	8.5
Mass bearing	0.77 kg