



FAG BEARING LIMITED



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

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

Bearing No. 71920 CB/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	114.92 mm
d ₂	113.16 mm
D ₂	128.7 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	28.9 mm
d _a - min.	106 mm
d _b - min.	106 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	116.1 mm
Basic dynamic load rating - C	21.6 kN
Basic static load rating - C ₀	22.4 kN
Fatigue load limit - P _u	0.865 kN
Limiting speed for grease	12000 r/min



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Lubrication	
Limiting speed for oil lubrication	19000 mm/min
Ball - D_w	7.938 mm
Ball - z	37
G_{ref}	9.96 cm ³
Calculation factor - f_0	10
Preload class A - G_A	72 N
Preload class B - G_B	145 N
Preload class C - G_C	430 N
Calculation factor - f	1.11
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.07
Calculation factor - f_{HC}	1
Preload class A	60 N/micron
Preload class B	79 N/micron
Preload class C	125 N/micron
d_1	114.92 mm
d_2	113.16 mm
D_2	128.7 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	106 mm
d_b min.	106 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	116.1 mm



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Basic dynamic load rating C	29.1 kN
Basic static load rating C_0	36 kN
Fatigue load limit P_u	0.865 kN
Attainable speed for grease lubrication	12000 r/min
Attainable speed for oil-air lubrication	19000 r/min
Ball diameter D_w	7.938 mm
Number of balls z	37
Reference grease quantity G_{ref}	9.96 cm ³
Preload class A G_A	72 N
Static axial stiffness, preload class A	60 N/ μ m
Preload class B G_B	145 N
Static axial stiffness, preload class B	79 N/ μ m
Preload class C G_C	430 N
Static axial stiffness, preload class C	125 N/ μ m
Calculation factor f	1.11
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.07
Calculation factor f_{HC}	1
Calculation factor f_0	10
Mass bearing	0.85 kg