



120 mm x 165 mm x 22 mm skf 71924 CB/P4AL
Super-precision Angular contact ball bearings

Bearing No. 71924 CB/P4AL

71924 CB/P4AL Bearing 2D drawings and 3D CAD models

Size	165x120x22 mm
Bore Diameter	120 mm
Outer Diameter	165 mm
Width	22 mm
d	120 mm
D	165 mm
B	22 mm
d ₁	136.92 mm
d ₂	135 mm
D ₂	151.9 mm
b	2.2 mm
C ₁	11.9 mm
C ₂	4.5 mm
C ₃	2.9 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	34.2 mm
d _a - min.	126 mm
d _b - min.	126 mm
D _a - max.	159 mm
D _b - max.	161.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	138.2 mm



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Basic dynamic load rating - C	27 kN
Basic static load rating - C ₀	30.5 kN
Fatigue load limit - P _u	1.1 kN
Limiting speed for grease lubrication	10000 r/min
Limiting speed for oil lubrication	16000 mm/min
Ball - D _w	8.731 mm
Ball - z	41
G _{ref}	14.01 cm ³
Calculation factor - f ₀	10
Preload class A - G _A	90 N
Preload class B - G _B	180 N
Preload class C - G _C	540 N
Calculation factor - f	1.13
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	71 N/micron
Preload class B	94 N/micron
Preload class C	150 N/micron
d ₁	136.92 mm
d ₂	135 mm
D ₂	151.9 mm
C ₁	11.9 mm
C ₂	4.5 mm
C ₃	2.9 mm
r _{1,2} min.	1.1 mm



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$r_{3,4}$ min.	0.6 mm
d_a min.	126 mm
d_b min.	126 mm
D_a max.	159 mm
D_b max.	161.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	138.2 mm
Basic dynamic load rating C	36.4 kN
Basic static load rating C_0	48 kN
Fatigue load limit P_u	1.08 kN
Attainable speed for grease lubrication	10000 r/min
Attainable speed for oil-air lubrication	16000 r/min
Ball diameter D_w	8.731 mm
Number of balls z	41
Reference grease quantity G_{ref}	14.01 cm ³
Preload class A G_A	90 N
Static axial stiffness, preload class A	71 N/ μ m
Preload class B G_B	180 N
Static axial stiffness, preload class B	94 N/ μ m
Preload class C G_C	540 N
Static axial stiffness, preload class C	150 N/ μ m
Calculation factor f	1.13
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



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Calculation factor f_0	10
Mass bearing	1.27 kg