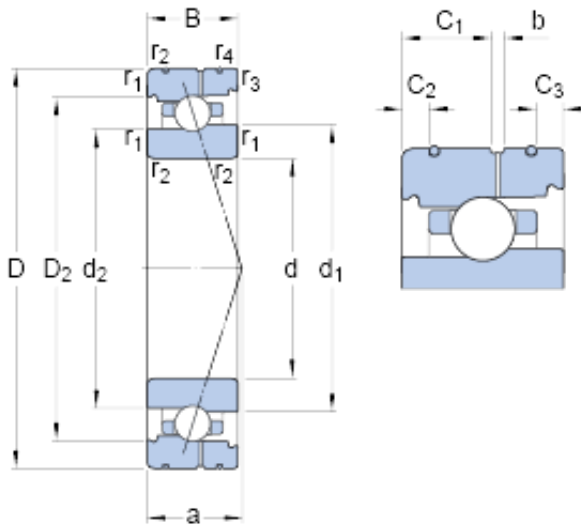




# Jinan Shenglei Bearing Co., Ltd.



## 120 mm x 165 mm x 22 mm SKF 71924 ACB/P4AL Angular contact ball bearing

Bearing No. 71924 ACB/P4AL

71924 ACB/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 <sub>1</sub>	136.92 mm
d <sub>2</sub>	135 mm
D <sub>2</sub>	151.9 mm
b	2.2 mm
C <sub>1</sub>	11.9 mm
C <sub>2</sub>	4.5 mm
C <sub>3</sub>	2.9 mm
r <sub>1,2</sub> - min.	1.1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	49.2 mm
d <sub>a</sub> - min.	126 mm
d <sub>b</sub> - min.	126 mm
D <sub>a</sub> - max.	159 mm
D <sub>b</sub> - max.	161.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
d <sub>n</sub>	138.2 mm



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Basic dynamic load rating - C	25.5 kN
Basic static load rating - $C_0$	28.5 kN
Fatigue load limit - $P_u$	1 kN
Limiting speed for grease lubrication	9000 r/min
Limiting speed for oil lubrication	14000 mm/min
Ball - $D_w$	8.731 mm
Ball - z	41
$G_{ref}$	14.01 cm <sup>3</sup>
Calculation factor - e	0.68
Calculation factor - $Y_2$	0.87
Calculation factor - $Y_0$	0.38
Calculation factor - $X_2$	0.41
Calculation factor - $Y_1$	0.92
Calculation factor - $Y_2$	1.41
Calculation factor - $Y_0$	0.76
Calculation factor - $X_2$	0.67
Preload class A - $G_A$	155 N
Preload class B - $G_B$	310 N
Preload class C - $G_C$	930 N
Calculation factor - f	1.13
Calculation factor - $f_1$	0.99
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	188 N/micron
Preload class B	243 N/micron



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Preload class C	366 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
$r_{3,4}$ 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	33.8 kN
Basic static load rating $C_0$	45 kN
Fatigue load limit $P_u$	1.02 kN
Attainable speed for grease lubrication	9000 r/min
Attainable speed for oil-air lubrication	14000 r/min
Ball diameter $D_w$	8.731 mm
Number of balls z	41
Reference grease quantity $G_{ref}$	14.01 cm <sup>3</sup>
Preload class A $G_A$	155 N
Static axial stiffness, preload class A	188 N/ $\mu$ m
Preload class B $G_B$	310 N
Static axial stiffness, preload class B	243 N/ $\mu$ m
Preload class C $G_C$	930 N



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Static axial stiffness, preload class C	366 N/ $\mu$ m
Calculation factor f	1.13
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.07
Calculation factor $f_{HC}$	1
Calculation factor e	0.68
Calculation factor (single, tandem) $Y_2$	0.87
Calculation factor (single, tandem) $Y_0$	0.38
Calculation factor (single, tandem) $X_2$	0.41
Calculation factor (back-to-back, face-to-face) $Y_1$	0.92
Calculation factor (back-to-back, face-to-face) $Y_2$	1.41
Calculation factor (back-to-back, face-to-face) $Y_0$	0.76
Calculation factor (back-to-back, face-to-face) $X_2$	0.67
Mass bearing	1.27 kg