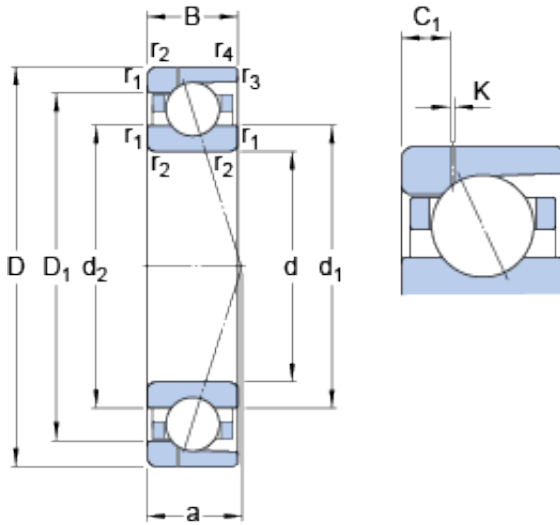




KOYO PRECISION AXLE CORP.



85 mm x 120 mm x 18 mm SKF 71917 ACD/P4AH1 angular contact ball bearings

Bearing No. 71917 ACD/P4AH1

71917 ACD/P4AH1 Bearing 2D drawings and 3D CAD models

Size	120x85x18 mm
Bore Diameter	120 mm
Outer Diameter	85 mm
Width	18 mm
d	85 mm
D	120 mm
B	18 mm
d ₁	95.8 mm
d ₂	95.8 mm
D ₁	109.2 mm
K	0.5 mm
C ₁	5.2 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	33 mm
d _a - min.	91 mm
d _b - min.	91 mm
D _a - max.	114 mm
D _b - max.	116 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	98.6 mm
Basic dynamic load rating - C	43.6 kN
Basic static load rating - C ₀	45.5 kN



KOYO PRECISION AXLE CORP.

Fatigue load limit - P_u	1.9 kN
Limiting speed for grease lubrication	9000 r/min
Limiting speed for oil lubrication	15000 mm/min
Ball - D_w	11.112 mm
Ball - z	25
G_{ref}	7.2 cm ³
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	270 N
Preload class B - G_B	540 N
Preload class C - G_C	1080 N
Preload class D - G_D	2160 N
Calculation factor - f	1.2
Calculation factor - f_1	0.98
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.04
Calculation factor - f_{2C}	1.08
Calculation factor - f_{2D}	1.14
Calculation factor - f_{HC}	1
Preload class A	214 N/micron
Preload class B	281 N/micron
Preload class C	374 N/micron



KOYO PRECISION AXLE CORP.

Preload class D	509 N/micron
d_1	95.8 mm
d_2	95.8 mm
D_1	109.2 mm
C_1	5.2 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	91 mm
d_b min.	91 mm
D_a max.	114 mm
D_b max.	116 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	98.6 mm
Basic dynamic load rating C	43.6 kN
Basic static load rating C_0	45.5 kN
Fatigue load limit P_u	1.93 kN
Attainable speed for grease lubrication	9000 r/min
Attainable speed for oil-air lubrication	15000 r/min
Ball diameter D_w	11.112 mm
Number of balls z	25
Reference grease quantity G_{ref}	7.2 cm ³
Preload class A G_A	270 N
Static axial stiffness, preload class A	214 N/ μ m
Preload class B G_B	540 N
Static axial stiffness, preload class B	281 N/ μ m
Preload class C G_C	1080 N
Static axial stiffness, preload class C	374 N/ μ m



KOYO PRECISION AXLE CORP.

Preload class D G_D	2160 N
Static axial stiffness, preload class D	509 N/ μ m
Calculation factor f	1.2
Calculation factor f_1	0.98
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.04
Calculation factor f_{2C}	1.08
Calculation factor f_{2D}	1.14
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	0.53 kg