



San Driveshaft Co., Ltd.



71818 ACD/P4 Bearing 2D drawings and 3D CAD models

90 mm x 115 mm x 13 mm SKF 71818 ACD/P4 Machined Brass Cages Angular Contact Ball Bearings

Bearing No. 71818 ACD/P4

Size	115x90x13 mm
Bore Diameter	115 mm
Outer Diameter	90 mm
Width	13 mm
d	90 mm
D	115 mm
B	13 mm
d ₁	98.2 mm
d ₂	98.2 mm
D ₁	107.1 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.3 mm
a	30.5 mm
d _a - min.	94.6 mm
d _b - min.	94.6 mm
D _a - max.	110.4 mm
D _b - max.	113 mm
r _a - max.	1 mm
r _b - max.	0.3 mm
d _n	99.1 mm
Basic dynamic load rating - C	20.3 kN
Basic static load rating - C ₀	25 kN
Fatigue load limit - P _u	1 kN



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Limiting speed for grease lubrication	10000 r/min
Limiting speed for oil lubrication	15000 mm/min
Ball - D_w	7.144 mm
Ball - z	31
G_{ref}	2.9 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	184 N
Preload class B - G_B	555 N
Preload class C - G_C	1110 N
Calculation factor - f	1.33
Calculation factor - f_1	0.97
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.08
Calculation factor - f_{2C}	1.15
Calculation factor - f_{HC}	1
Preload class A	194 N/micron
Preload class B	307 N/micron
Preload class C	420 N/micron
d_1	98.2 mm
d_2	98.2 mm
D_1	107.1 mm



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$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	94.6 mm
d_b min.	94.6 mm
D_a max.	110.4 mm
D_b max.	113 mm
r_a max.	1 mm
r_b max.	0.3 mm
d_n	99.1 mm
Basic dynamic load rating C	20.3 kN
Basic static load rating C_0	25 kN
Fatigue load limit P_u	1.04 kN
Attainable speed for grease lubrication	10000 r/min
Attainable speed for oil-air lubrication	15000 r/min
Ball diameter D_w	7.144 mm
Number of balls z	31
Reference grease quantity G_{ref}	2.9 cm ³
Preload class A G_A	184 N
Static axial stiffness, preload class A	194 N/ μ m
Preload class B G_B	555 N
Static axial stiffness, preload class B	307 N/ μ m
Preload class C G_C	1110 N
Static axial stiffness, preload class C	420 N/ μ m
Calculation factor f	1.33
Calculation factor f_1	0.97
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.08
Calculation factor f_{2C}	1.15



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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	0.28 kg