



S71907 ACE/P4A Bearing 2D drawings and 3D CAD models

SKF S71907 ACE/P4A angular contact ball bearings

Bearing No. S71907 ACE/P4A

Size	55x35x10 mm
Bore Diameter	55 mm
Outer Diameter	35 mm
Width	10 mm
d	35 mm
D	55 mm
B	10 mm
d ₁	41.7 mm
d ₂	40.2 mm
D ₂	50.3 mm
r _{1,2} - min.	0.6 mm
r _{3,4} - min.	0.3 mm
a	16.2 mm
d _a - min.	38.2 mm
d _a - max.	41.3 mm
d _b - min.	37 mm
d _b - max.	39.8 mm
D _a - max.	51.8 mm
D _b - max.	53 mm
r _a - max.	0.6 mm
r _b - max.	0.3 mm
Basic dynamic load rating - C	7.3 kN
Basic static load rating - C ₀	4.5 kN
Fatigue load limit - P _u	0.19 kN



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Limiting speed for grease lubrication	32000 r/min
Ball - D_w	5.556 mm
Ball - z	19
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	66 N
Preload class B - G_B	200 N
Preload class C - G_C	400 N
Calculation factor - f	1.05
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.04
Calculation factor - f_{2C}	1.07
Calculation factor - f_{HC}	1
Preload class A	69 N/micron
Preload class B	104 N/micron
Preload class C	136 N/micron
d_1	41.7 mm
d_2	40.2 mm
D_2	50.3 mm
$r_{1,2}$ min.	0.6 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	38.2 mm



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d_a max.	41.3 mm
d_b min.	37 mm
d_b max.	39.8 mm
D_a max.	51.8 mm
D_b max.	53 mm
r_a max.	0.6 mm
r_b max.	0.3 mm
Basic dynamic load rating C	7.28 kN
Basic static load rating C_0	4.5 kN
Fatigue load limit P_u	0.19 kN
Attainable speed for grease lubrication	32000 r/min
Ball diameter D_w	5.556 mm
Number of balls z	19
Preload class A G_A	66 N
Static axial stiffness, preload class A	69 N/ μ m
Preload class B G_B	200 N
Static axial stiffness, preload class B	104 N/ μ m
Preload class C G_C	400 N
Static axial stiffness, preload class C	136 N/ μ m
Calculation factor f	1.05
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.04
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



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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	0.074 kg