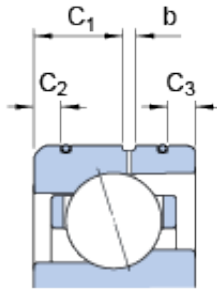
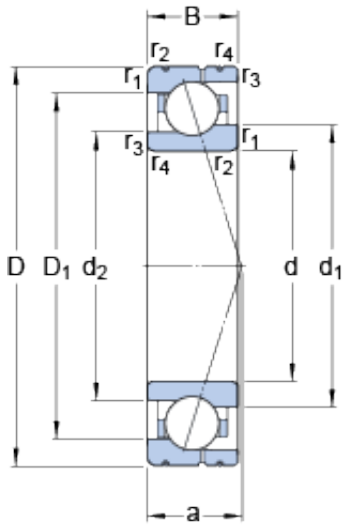




NTL BEARINGS LTD.



71913 ACE/P4AL SKF High Speed Angular Contact Ball Bearings

Bearing No. 71913 ACE/P4AL

71913 ACE/P4AL Bearing 2D drawings and 3D CAD models

Size	90x65x13 mm
Bore Diameter	90 mm
Outer Diameter	65 mm
Width	13 mm
d	65 mm
D	90 mm
B	13 mm
d ₁	72.75 mm
d ₂	70.7 mm
D ₁	82.32 mm
b	2.2 mm
C ₁	6.5 mm
C ₂	2.5 mm
C ₃	2 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.3 mm
a	25.8 mm
d _a - min.	69.6 mm
d _b - min.	67 mm
D _a - max.	85.4 mm
D _b - max.	88 mm
r _a - max.	1 mm
r _b - max.	0.3 mm
d _n	74.5 mm



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Basic dynamic load rating - C	15.6 kN
Basic static load rating - C ₀	11.8 kN
Fatigue load limit - P _u	0.5 kN
Limiting speed for grease lubrication	18000 r/min
Limiting speed for oil lubrication	28000 mm/min
Ball - D _w	7.938 mm
Ball - z	24
G _{ref}	2.6 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	142 N
Preload class B - G _B	425 N
Preload class C - G _C	850 N
Calculation factor - f	1.19
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	120 N/micron
Preload class B	181 N/micron



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Preload class C	238 N/micron
d_1	72.75 mm
d_2	70.7 mm
D_1	82.32 mm
C_1	6.5 mm
C_2	2.5 mm
C_3	2 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	69.6 mm
d_b min.	67 mm
D_a max.	85.4 mm
D_b max.	88 mm
r_a max.	1 mm
r_b max.	0.3 mm
d_n	74.5 mm
Basic dynamic load rating C	15.6 kN
Basic static load rating C_0	11.8 kN
Fatigue load limit P_u	0.5 kN
Attainable speed for grease lubrication	18000 r/min
Attainable speed for oil-air lubrication	28000 r/min
Ball diameter D_w	7.938 mm
Number of balls z	24
Reference grease quantity G_{ref}	2.6 cm ³
Preload class A G_A	142 N
Static axial stiffness, preload class A	120 N/ μ m
Preload class B G_B	425 N
Static axial stiffness, preload class B	181 N/ μ m
Preload class C G_C	850 N



NTL BEARINGS LTD.

Static axial stiffness, preload class C	238 N/ μ m
Calculation factor f	1.19
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
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	0.2 kg