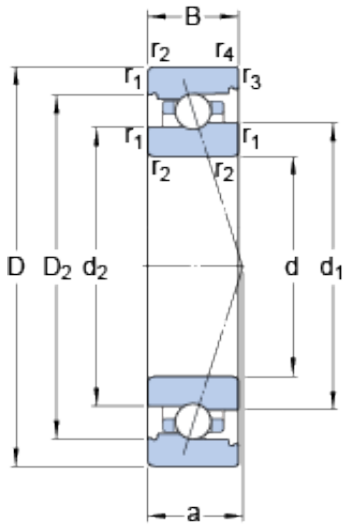




NTL BEARINGS LTD.

7015 ACB/HCP4A SKF High Speed Angular Contact Ball Bearings

Bearing No. 7015 ACB/HCP4A



7015 ACB/HCP4A Bearing 2D drawings and 3D CAD models

Size	115x75x20 mm
Bore Diameter	115 mm
Outer Diameter	75 mm
Width	20 mm
d	75 mm
D	115 mm
B	20 mm
d ₁	90 mm
d ₂	88.2 mm
D ₂	102.8 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	32.3 mm
d _a - min.	81 mm
d _b - min.	81 mm
D _a - max.	109 mm
D _b - max.	111.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	91.1 mm
Basic dynamic load rating - C	19 kN
Basic static load rating - C ₀	16.6 kN
Fatigue load limit - P _u	0.71 kN
Limiting speed for grease	17000 r/min



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Lubrication	
Limiting speed for oil lubrication	26000 mm/min
Ball - D_w	7.938 mm
Ball - z	30
G_{ref}	7.7 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	115 N
Preload class B - G_B	230 N
Preload class C - G_C	690 N
Calculation factor - f	1.08
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{HC}	1.01
Preload class A	148 N/micron
Preload class B	188 N/micron
Preload class C	285 N/micron
d_1	90 mm
d_2	88.2 mm
D_2	102.8 mm
$r_{1,2}$ min.	1.1 mm



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$r_{3,4}$ min.	0.6 mm
d_a min.	81 mm
d_b min.	81 mm
D_a max.	109 mm
D_b max.	111.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	91.1 mm
Basic dynamic load rating C	25.1 kN
Basic static load rating C_0	27 kN
Fatigue load limit P_u	0.71 kN
Attainable speed for grease lubrication	17000 r/min
Attainable speed for oil-air lubrication	26000 r/min
Ball diameter D_w	7.938 mm
Number of balls z	30
Reference grease quantity G_{ref}	7.7 cm ³
Preload class A G_A	115 N
Static axial stiffness, preload class A	148 N/ μ m
Preload class B G_B	230 N
Static axial stiffness, preload class B	188 N/ μ m
Preload class C G_C	690 N
Static axial stiffness, preload class C	285 N/ μ m
Calculation factor f	1.08
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1.01



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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	0.66 kg