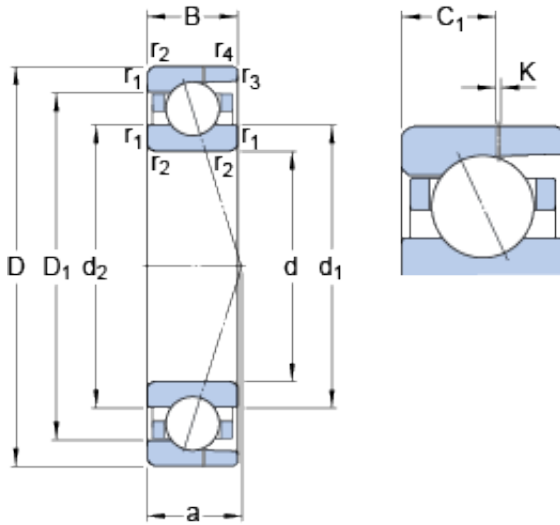




GARLOCK BEARINGS LTD



7008 ACD/P4AH SKF High Speed Angular Contact Ball Bearings

Bearing No. 7008 ACD/P4AH

7008 ACD/P4AH Bearing 2D drawings and 3D CAD models

Size	68x40x15 mm
Bore Diameter	68 mm
Outer Diameter	40 mm
Width	15 mm
d	40 mm
D	68 mm
B	15 mm
d ₁	49.2 mm
d ₂	49.2 mm
D ₁	58.8 mm
K	0.5 mm
C ₁	8.95 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.3 mm
a	20.2 mm
d _a - min.	44.6 mm
d _b - min.	44.6 mm
D _a - max.	63.4 mm
D _b - max.	66 mm
r _a - max.	1 mm
r _b - max.	0.3 mm
d _n	50.8 mm
Basic dynamic load rating - C	15.9 kN
Basic static load rating - C ₀	10.4 kN



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Fatigue load limit - P_u	0.44 kN
Limiting speed for grease lubrication	19000 r/min
Limiting speed for oil lubrication	30000 mm/min
Ball - D_w	7.938 mm
Ball - z	18
G_{ref}	2.4 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	100 N
Preload class B - G_B	200 N
Preload class C - G_C	400 N
Preload class D - G_D	800 N
Calculation factor - f	1.06
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_{2D}	1.08
Calculation factor - f_{HC}	1
Preload class A	96 N/micron
Preload class B	124 N/micron
Preload class C	162 N/micron



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Preload class D	214 N/micron
d_1	49.2 mm
d_2	49.2 mm
D_1	58.8 mm
C_1	8.95 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	44.6 mm
d_b min.	44.6 mm
D_a max.	63.4 mm
D_b max.	66 mm
r_a max.	1 mm
r_b max.	0.3 mm
d_n	50.8 mm
Basic dynamic load rating C	15.9 kN
Basic static load rating C_0	10.4 kN
Fatigue load limit P_u	0.44 kN
Attainable speed for grease lubrication	19000 r/min
Attainable speed for oil-air lubrication	30000 r/min
Ball diameter D_w	7.938 mm
Number of balls z	18
Reference grease quantity G_{ref}	2.4 cm ³
Preload class A G_A	100 N
Static axial stiffness, preload class A	96 N/ μ m
Preload class B G_B	200 N
Static axial stiffness, preload class B	124 N/ μ m
Preload class C G_C	400 N
Static axial stiffness, preload class C	162 N/ μ m



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Preload class D G_D	800 N
Static axial stiffness, preload class D	214 N/ μ m
Calculation factor f	1.06
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_{2D}	1.08
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	0.19 kg