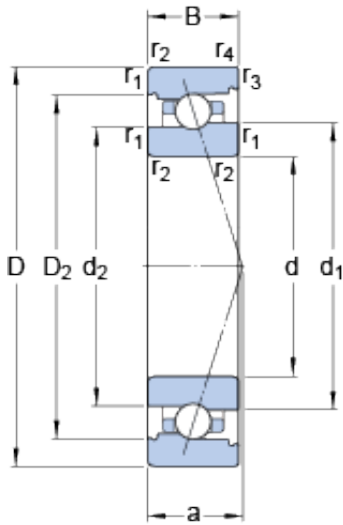




GARLOCK BEARINGS LTD



7007 ACB/HCP4A Bearing 2D drawings and 3D CAD models

7007 ACB/HCP4A SKF High Speed Angular Contact Ball Bearings

Bearing No. 7007 ACB/HCP4A

Size	62x35x14 mm
Bore Diameter	62 mm
Outer Diameter	35 mm
Width	14 mm
d	35 mm
D	62 mm
B	14 mm
d ₁	45.45 mm
d ₂	44.34 mm
D ₂	53.38 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.6 mm
a	18.4 mm
d _a - min.	39.6 mm
d _b - min.	39.6 mm
D _a - max.	57.4 mm
D _b - max.	58.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	46.1 mm
Basic dynamic load rating - C	6.5 kN
Basic static load rating - C ₀	4.6 kN
Fatigue load limit - P _u	0.193 kN
Limiting speed for grease	34000 r/min



GARLOCK BEARINGS LTD

Lubrication	
Limiting speed for oil lubrication	53000 mm/min
Ball - D_w	4.762 mm
Ball - z	23
G_{ref}	1.81 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	38 N
Preload class B - G_B	76 N
Preload class C - G_C	230 N
Calculation factor - f	1.04
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	72 N/micron
Preload class B	92 N/micron
Preload class C	139 N/micron
d_1	45.45 mm
d_2	44.34 mm
D_2	53.38 mm
$r_{1,2}$ min.	1 mm



GARLOCK BEARINGS LTD

$r_{3,4}$ min.	0.6 mm
d_a min.	39.6 mm
d_b min.	39.6 mm
D_a max.	57.4 mm
D_b max.	58.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	46.1 mm
Basic dynamic load rating C	8.84 kN
Basic static load rating C_0	7.8 kN
Fatigue load limit P_u	0.193 kN
Attainable speed for grease lubrication	34000 r/min
Attainable speed for oil-air lubrication	53000 r/min
Ball diameter D_w	4.762 mm
Number of balls z	23
Reference grease quantity G_{ref}	1.81 cm ³
Preload class A G_A	38 N
Static axial stiffness, preload class A	72 N/ μ m
Preload class B G_B	76 N
Static axial stiffness, preload class B	92 N/ μ m
Preload class C G_C	230 N
Static axial stiffness, preload class C	139 N/ μ m
Calculation factor f	1.04
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



GARLOCK BEARINGS LTD

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	0.16 kg