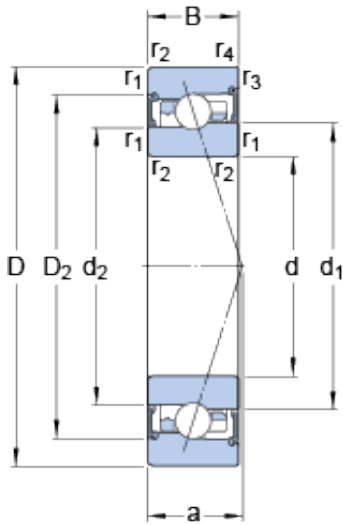




GARLOCK BEARINGS LTD



S7007 FW/HC SKF High Speed Angular Contact Ball Bearings

Bearing No. S7007 FW/HC

S7007 FW/HC Bearing 2D drawings and 3D CAD models

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	43.7 mm
d ₂	41.6 mm
D ₂	54.85 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.6 mm
a	14.8 mm
d _a - min.	39.6 mm
d _a - max.	43.1 mm
d _b - min.	39.6 mm
d _b - max.	41 mm
D _a - max.	57.4 mm
D _b - max.	57.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
Basic dynamic load rating - C	11.4 kN
Basic static load rating - C ₀	6.6 kN
Fatigue load limit - P _u	0.275 kN



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Limiting speed for grease lubrication	35000 r/min
Ball - D_w	7.144 mm
Ball - z	17
Calculation factor - e	0.57
Calculation factor - Y_2	1
Calculation factor - Y_0	0.42
Calculation factor - X_2	0.43
Calculation factor - Y_1	1.09
Calculation factor - Y_2	1.63
Calculation factor - Y_0	0.84
Calculation factor - X_2	0.7
d_1	43.7 mm
d_2	41.6 mm
D_2	54.85 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	39.6 mm
d_a max.	43.1 mm
d_b min.	39.6 mm
d_b max.	41 mm
D_a max.	57.4 mm
D_b max.	57.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
Basic dynamic load rating C	11.4 kN
Basic static load rating C_0	6.55 kN
Fatigue load limit P_u	0.275 kN
Attainable speed for grease lubrication	35000 r/min
Ball diameter D_w	7.144 mm
Number of balls z	17



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Calculation factor e	0.57
Calculation factor (single, tandem) Y_2	1
Calculation factor (single, tandem) Y_0	0.42
Calculation factor (single, tandem) X_2	0.43
Calculation factor (back-to-back, face-to-face) Y_1	1.09
Calculation factor (back-to-back, face-to-face) Y_2	1.63
Calculation factor (back-to-back, face-to-face) Y_0	0.84
Calculation factor (back-to-back, face-to-face) X_2	0.7
Mass bearing	0.14 kg