



BEARING-MALAYSIA SDN.BHD.



S7204 ACD/HCP4A Bearing 2D drawings and 3D CAD models

20 mm x 47 mm x 14 mm SKF S7204
ACD/HCP4A angular contact ball bearings

Bearing No. S7204 ACD/HCP4A

Size	47x20x14 mm
Bore Diameter	47 mm
Outer Diameter	20 mm
Width	14 mm
d	20 mm
D	47 mm
B	14 mm
d ₁	29.1 mm
d ₂	29.1 mm
D ₂	40.9 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.3 mm
a	15 mm
d _a - min.	25.6 mm
d _a - max.	28.5 mm
d _b - min.	25.6 mm
d _b - max.	28.5 mm
D _a - max.	41.4 mm
D _b - max.	44.6 mm
r _a - max.	1 mm
r _b - max.	0.3 mm
Basic dynamic load rating - C	11.4 kN
Basic static load rating - C ₀	5.6 kN
Fatigue load limit - P _u	0.236 kN



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Limiting speed for grease lubrication	38000 r/min
Ball - D_w	7.938 mm
Ball - z	11
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	70 N
Preload class B - G_B	140 N
Preload class C - G_C	280 N
Preload class D - G_D	560 N
Calculation factor - f	1.03
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2C}	1.03
Calculation factor - f_{2D}	1.06
Calculation factor - f_{HC}	1.01
Preload class A	68 N/micron
Preload class B	87 N/micron
Preload class C	113 N/micron
Preload class D	149 N/micron
d_1	29.1 mm
d_2	29.1 mm
D_2	40.9 mm



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$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	25.6 mm
d_a max.	28.5 mm
d_b min.	25.6 mm
d_b max.	28.5 mm
D_a max.	41.4 mm
D_b max.	44.6 mm
r_a max.	1 mm
r_b max.	0.3 mm
Basic dynamic load rating C	11.4 kN
Basic static load rating C_0	5.6 kN
Fatigue load limit P_u	0.236 kN
Attainable speed for grease lubrication	38000 r/min
Ball diameter D_w	7.938 mm
Number of balls z	11
Preload class A G_A	70 N
Static axial stiffness, preload class A	68 N/ μ m
Preload class B G_B	140 N
Static axial stiffness, preload class B	87 N/ μ m
Preload class C G_C	280 N
Static axial stiffness, preload class C	113 N/ μ m
Preload class D G_D	560 N
Static axial stiffness, preload class D	149 N/ μ m
Calculation factor f	1.03
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.01
Calculation factor f_{2C}	1.03



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Calculation factor f_{2D}	1.06
Calculation factor f_{HC}	1.01
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	0.092 kg