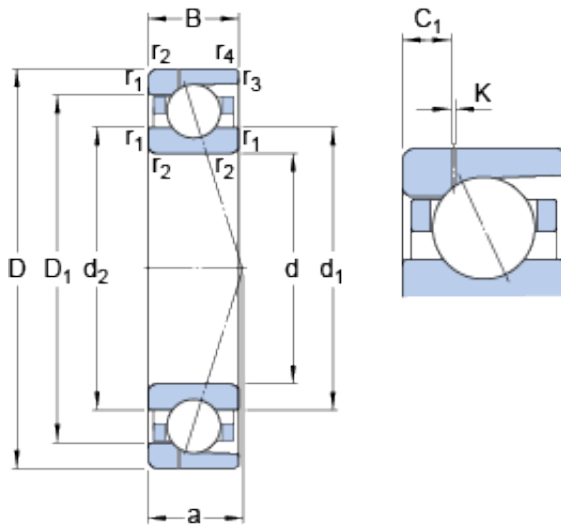




Bearing Rolamentos do Brasil Ltda.



190 mm x 290 mm x 46 mm SKF 7038
ACD/HCP4AH1 angular contact ball bearings

Bearing No. 7038 ACD/HCP4AH1

7038 ACD/HCP4AH1 Bearing 2D drawings and 3D
CAD models

Size	290x190x46 mm
Bore Diameter	290 mm
Outer Diameter	190 mm
Width	46 mm
d	190 mm
D	290 mm
B	46 mm
d ₁	221.8 mm
d ₂	221.8 mm
D ₁	258.2 mm
K	0.6 mm
C ₁	13.4 mm
r _{1,2} - min.	2.1 mm
r _{3,4} - min.	1.1 mm
a	79.2 mm
d _a - min.	201 mm
d _b - min.	201 mm
D _a - max.	279 mm
D _b - max.	284 mm
r _a - max.	2 mm
r _b - max.	1 mm
d _n	229.7 mm
Basic dynamic load rating - C	234 kN
Basic static load rating - C ₀	290 kN



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Fatigue load limit - P_u	8 kN
Limiting speed for grease lubrication	5300 r/min
Limiting speed for oil lubrication	8000 mm/min
Ball - D_w	30.162 mm
Ball - z	22
G_{ref}	114 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	1450 N
Preload class B - G_B	2900 N
Preload class C - G_C	5800 N
Preload class D - G_D	11600 N
Calculation factor - f	1.14
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}	1.02
Preload class A	523 N/micron
Preload class B	681 N/micron
Preload class C	898 N/micron



Bearing Rolamentos do Brasil Ltda.

Preload class D	1208 N/micron
d_1	221.8 mm
d_2	221.8 mm
D_1	258.2 mm
C_1	13.4 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1.1 mm
d_a min.	201 mm
d_b min.	201 mm
D_a max.	279 mm
D_b max.	284 mm
r_a max.	2 mm
r_b max.	1 mm
d_n	229.7 mm
Basic dynamic load rating C	234 kN
Basic static load rating C_0	290 kN
Fatigue load limit P_u	8 kN
Attainable speed for grease lubrication	5300 r/min
Attainable speed for oil-air lubrication	8000 r/min
Ball diameter D_w	30.162 mm
Number of balls z	22
Reference grease quantity G_{ref}	114 cm ³
Preload class A G_A	1450 N
Static axial stiffness, preload class A	523 N/ μ m
Preload class B G_B	2900 N
Static axial stiffness, preload class B	681 N/ μ m
Preload class C G_C	5800 N
Static axial stiffness, preload class C	898 N/ μ m



Bearing Rolamentos do Brasil Ltda.

Preload class D G_D	11600 N
Static axial stiffness, preload class D	1208 N/ μ m
Calculation factor f	1.14
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}	1.02
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	8.03 kg