



Bearing No. 7038 ACD/HCP4A

D	290 mm
d	190 mm
B	46 mm
a	79.2 mm
Ball - z	22
Size (mm)	290x190x46
Width (mm)	46
Mass bearing	8.03 kg
d _n	229.7 mm
d _n	229.7 mm
D ₁	258.2 mm
d ₁	221.8 mm
d ₂	221.8 mm
D ₁	258.2 mm
d ₂	221.8 mm
d ₁	221.8 mm
Bearing number	7038 ACD/HCP4A
Preload class B	681 N/micron
Preload class A	523 N/micron
Preload class D	1208 N/micron
Preload class C	898 N/micron
G _{ref}	114 cm3
Number of balls z	22
Bore Diameter (mm)	290
r _b max.	1 mm
r _a max.	2 mm
D _b max.	284 mm
D _a max.	279 mm
d _a min.	201 mm

d_b min.	201 mm
Outer Diameter (mm)	190
D_b - max.	284 mm
d_b - min.	201 mm
Ball - D_w	30.162 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1.1 mm
d_a - min.	201 mm
r_a - max.	2 mm
D_a - max.	279 mm
r_b - max.	1 mm
Calculation factor f	1.14
Calculation factor e	0.68
$r_{1,2}$ - min.	2.1 mm
$r_{3,4}$ - min.	1.1 mm
Calculation factor - e	0.68
Calculation factor - f	1.14
Ball diameter D_w	30.162 mm
Basic dynamic load rating C	234 kN
Preload class C G_C	5800 N
Preload class B G_B	2900 N
Preload class A G_A	1450 N
Preload class D G_D	11600 N
Basic dynamic load rating - C	234 kN
Preload class B - G_B	2900 N
Preload class D - G_D	11600 N
Preload class C - G_C	5800 N
Preload class A - G_A	1450 N
Fatigue load limit P_u	8 kN
Calculation factor f_1	0.99

Calculation factor f_{2A}	1
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.02
Calculation factor f_{2D}	1.08
Calculation factor f_{HC}	1.02
Calculation factor - X_2	0.67
Calculation factor - f_1	0.99
Calculation factor - Y_1	0.92
Limiting speed for oil lubrication	8000 mm/min
Calculation factor - Y_0	0.76
Fatigue load limit - P_u	8 kN
Calculation factor - Y_2	1.41
Calculation factor - f_{HC}	1.02
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2D}	1.08
Limiting speed for grease lubrication	5300 r/min
Basic static load rating C_0	290 kN
Static axial stiffness, preload class B	681 N/ μ m
Attainable speed for grease lubrication	5300 r/min
Static axial stiffness, preload class D	1208 N/ μ m
Static axial stiffness, preload class C	898 N/ μ m
Static axial stiffness, preload class A	523 N/ μ m
Basic static load rating -	290 kN

C_0	
Attainable speed for oil-air lubrication	8000 r/min
Reference grease quantity G_{ref}	114 cm ³
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