



Bearing No. 7038 CD/HCP4AH1

K	0.6 mm
a	55.3 mm
d	190 mm
D	290 mm
B	46 mm
Ball - z	22
Size (mm)	290x190x46
Width (mm)	46
Mass bearing	8.03 kg
d_n	229.7 mm
D_1	258.2 mm
d_1	221.8 mm
C_1	13.4 mm
D_1	258.2 mm
d_2	221.8 mm
C_1	13.4 mm
d_1	221.8 mm
d_n	229.7 mm
d_2	221.8 mm
Bearing number	7038 CD/HCP4AH1
Preload class A	218 N/micron
Preload class D	591 N/micron
Preload class B	295 N/micron
Preload class C	411 N/micron
G_{ref}	114 cm ³
Number of balls z	22
r_b max.	1 mm
r_a max.	2 mm
D_b max.	284 mm

D_a max.	279 mm
d_b min.	201 mm
d_a min.	201 mm
Bore Diameter (mm)	290
Outer Diameter (mm)	190
d_b - min.	201 mm
r_b - max.	1 mm
$r_{1,2}$ min.	2.1 mm
d_a - min.	201 mm
Calculation factor f	1.14
r_a - max.	2 mm
$r_{3,4}$ min.	1.1 mm
D_a - max.	279 mm
Ball - D_w	30.162 mm
D_b - max.	284 mm
Calculation factor - f	1.14
$r_{3,4}$ - min.	1.1 mm
$r_{1,2}$ - min.	2.1 mm
Ball diameter D_w	30.162 mm
Basic dynamic load rating C	247 kN
Preload class D G_D	7600 N
Preload class A G_A	950 N
Preload class C G_C	3800 N
Preload class B G_B	1900 N
Basic dynamic load rating - C	247 kN
Preload class A - G_A	950 N
Preload class B - G_B	1900 N
Preload class C - G_C	3800 N
Preload class D - G_D	7600 N
Fatigue load limit P_u	8.3 kN

Calculation factor f_1	1
Calculation factor f_0	15.9
Calculation factor f_{2D}	1.09
Calculation factor - f	1
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1.02
Calculation factor f_{2B}	1.02
Calculation factor f_{2A}	1
Limiting speed for oil lubrication	9000 mm/min
Fatigue load limit - P_u	8.3 kN
Calculation factor - f_0	15.9
Calculation factor - f_{2D}	1.09
Calculation factor - f_{HC}	1.02
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2B}	1.02
Limiting speed for grease lubrication	5600 r/min
Basic static load rating C_0	305 kN
Static axial stiffness, preload class B	295 N/ μ m
Static axial stiffness, preload class C	411 N/ μ m
Static axial stiffness, preload class A	218 N/ μ m
Static axial stiffness, preload class D	591 N/ μ m
Attainable speed for grease lubrication	5600 r/min
Attainable speed for oil-air lubrication	9000 r/min

Basic static load rating - C_0	305 kN
Reference grease quantity G_{ref}	114 cm ³