



Bearing No. 7222 ACD/HCP4A

D	200 mm
d	110 mm
B	38 mm
a	55.4 mm
Ball - z	16
Size (mm)	200x110x38
Width (mm)	38
Mass bearing	3.86 kg
d_n	145.9 mm
d_n	145.9 mm
D_1	171.3 mm
d_1	138.7 mm
d_2	138.7 mm
D_1	171.3 mm
d_2	138.7 mm
d_1	138.7 mm
Bearing number	7222 ACD/HCP4A
Preload class B	469 N/micron
Preload class A	361 N/micron
Preload class D	830 N/micron
Preload class C	618 N/micron
G_{ref}	54.15 cm ³
Number of balls z	16
Bore Diameter (mm)	200
r_b max.	1 mm
r_a max.	2 mm
D_b max.	193 mm
D_a max.	188 mm
d_a min.	122 mm

d_b min.	122 mm
Outer Diameter (mm)	110
D_b - max.	193 mm
d_b - min.	122 mm
Ball - D_w	26.988 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1.1 mm
d_a - min.	122 mm
r_a - max.	2 mm
D_a - max.	188 mm
r_b - max.	1 mm
Calculation factor f	1.08
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	1.08
Ball diameter D_w	26.988 mm
Basic dynamic load rating C	168 kN
Preload class C G_C	4200 N
Preload class B G_B	2100 N
Preload class A G_A	1050 N
Preload class D G_D	8400 N
Basic dynamic load rating - C	168 kN
Preload class B - G_B	2100 N
Preload class D - G_D	8400 N
Preload class C - G_C	4200 N
Preload class A - G_A	1050 N
Fatigue load limit P_u	5.4 kN
Calculation factor f_1	0.99

Calculation factor f_{2A}	1
Calculation factor f_{2C}	1.03
Calculation factor f_{2B}	1.01
Calculation factor f_{2D}	1.06
Calculation factor f_{HC}	1.01
Calculation factor - X_2	0.67
Calculation factor - f_1	0.99
Calculation factor - Y_1	0.92
Limiting speed for oil lubrication	12000 mm/min
Calculation factor - Y_0	0.76
Fatigue load limit - P_u	5.4 kN
Calculation factor - Y_2	1.41
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.03
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2D}	1.06
Limiting speed for grease lubrication	7500 r/min
Basic static load rating C_0	160 kN
Static axial stiffness, preload class B	469 N/ μ m
Attainable speed for grease lubrication	7500 r/min
Static axial stiffness, preload class D	830 N/ μ m
Static axial stiffness, preload class C	618 N/ μ m
Static axial stiffness, preload class A	361 N/ μ m
Basic static load rating -	160 kN

C_0	
Attainable speed for oil-air lubrication	12000 r/min
Reference grease quantity G_{ref}	54.15 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