



Bearing No. 7207 ACD/HCP4A

D	72 mm
d	35 mm
B	17 mm
a	21.1 mm
Ball - z	13
Size (mm)	72x35x17
Width (mm)	17
Mass bearing	0.24 kg
d_n	49.7 mm
d_n	49.7 mm
D_1	60.2 mm
d_1	46.8 mm
d_2	46.8 mm
D_1	60.2 mm
d_2	46.8 mm
d_1	46.8 mm
Bearing number	7207 ACD/HCP4A
Preload class B	171 N/micron
Preload class A	132 N/micron
Preload class D	305 N/micron
Preload class C	227 N/micron
G_{ref}	3.903 cm ³
Number of balls z	13
Bore Diameter (mm)	72
r_b max.	0.3 mm
r_a max.	1 mm
D_b max.	69.6 mm
D_a max.	65 mm
d_a min.	42 mm

d_b min.	42 mm
Outer Diameter (mm)	35
D_b - max.	69.6 mm
d_b - min.	42 mm
Ball - D_w	11.112 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.3 mm
d_a - min.	42 mm
r_a - max.	1 mm
D_a - max.	65 mm
r_b - max.	0.3 mm
Calculation factor f	1.05
Calculation factor e	0.68
$r_{1,2}$ - min.	1.1 mm
$r_{3,4}$ - min.	0.3 mm
Calculation factor - e	0.68
Calculation factor - f	1.05
Ball diameter D_w	11.112 mm
Basic dynamic load rating C	30.7 kN
Preload class C G_C	760 N
Preload class B G_B	380 N
Preload class A G_A	190 N
Preload class D G_D	1520 N
Basic dynamic load rating - C	30.7 kN
Preload class B - G_B	380 N
Preload class D - G_D	1520 N
Preload class C - G_C	760 N
Preload class A - G_A	190 N
Fatigue load limit P_u	0.88 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	34000 mm/min
Calculation factor - Y_0	0.76
Fatigue load limit - P_u	0.88 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	20000 r/min
Basic static load rating C_0	20.8 kN
Static axial stiffness, preload class B	171 N/ μ m
Attainable speed for grease lubrication	20000 r/min
Static axial stiffness, preload class D	305 N/ μ m
Static axial stiffness, preload class C	227 N/ μ m
Static axial stiffness, preload class A	132 N/ μ m
Basic static load rating -	20.8 kN

C_0	
Attainable speed for oil-air lubrication	34000 r/min
Reference grease quantity G_{ref}	3.903 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