



Bearing No. 7015 CD/HCP4A

D	115 mm
d	75 mm
B	20 mm
a	22.8 mm
Ball - z	20
Size (mm)	115x75x20
Width (mm)	20
Mass bearing	0.53 kg
d_n	90 mm
d_n	90 mm
D_1	102.7 mm
d_1	87.3 mm
d_2	87.3 mm
D_1	102.7 mm
d_2	87.3 mm
d_1	87.3 mm
Bearing number	7015 CD/HCP4A
Preload class A	93 N/micron
G_{ref}	8.4 cm ³
Preload class C	179 N/micron
Preload class D	260 N/micron
Preload class B	128 N/micron
Number of balls z	20
r_b max.	0.6 mm
r_a max.	1 mm
D_b max.	111 mm
D_a max.	109 mm
d_a min.	81 mm
Bore Diameter (mm)	115

d_b min.	81 mm
Outer Diameter (mm)	75
d_a - min.	81 mm
r_a - max.	1 mm
$r_{1,2}$ min.	1.1 mm
Calculation factor f	1.14
D_b - max.	111 mm
$r_{3,4}$ min.	0.6 mm
D_a - max.	109 mm
Ball - D_w	12.7 mm
r_b - max.	0.6 mm
d_b - min.	81 mm
$r_{3,4}$ - min.	0.6 mm
$r_{1,2}$ - min.	1.1 mm
Calculation factor - f	1.14
Basic dynamic load rating C	52.7 kN
Ball diameter D_w	12.7 mm
Preload class C G_C	800 N
Preload class D G_D	1600 N
Preload class B G_B	400 N
Preload class A G_A	200 N
Basic dynamic load rating - C	52.7 kN
Preload class D - G_D	1600 N
Preload class C - G_C	800 N
Preload class B - G_B	400 N
Preload class A - G_A	200 N
Calculation factor f_1	1
Calculation factor f_0	15.7
Fatigue load limit P_u	2.08 kN
Calculation factor f_{HC}	1.02

Calculation factor f_{2D}	1.09
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.02
Calculation factor f_{2A}	1
Calculation factor - f	1
Fatigue load limit - P_u	2.1 kN
Limiting speed for oil lubrication	22000 mm/min
Calculation factor - f_0	15.7
Calculation factor - f_{2A}	1
Calculation factor - f_{HC}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2D}	1.09
Limiting speed for grease lubrication	14000 r/min
Basic static load rating C_0	49 kN
Static axial stiffness, preload class D	260 N/ μ m
Static axial stiffness, preload class B	128 N/ μ m
Static axial stiffness, preload class A	93 N/ μ m
Attainable speed for grease lubrication	14000 r/min
Static axial stiffness, preload class C	179 N/ μ m
Basic static load rating - C_0	49 kN
Attainable speed for oil-air lubrication	22000 r/min
Reference grease quantity G_{ref}	8.4 cm ³

