



Bearing No. 7015 CD/P4AL

b	1.8 mm
d	75 mm
a	22.8 mm
B	20 mm
D	115 mm
Ball - z	20
Size (mm)	115x75x20
Width (mm)	20
Mass bearing	0.63 kg
d <sub>2</sub>	87.3 mm
D <sub>1</sub>	102.7 mm
d <sub>n</sub>	90 mm
C <sub>1</sub>	10.9 mm
C <sub>2</sub>	3.9 mm
C <sub>3</sub>	3.4 mm
C <sub>2</sub>	3.9 mm
C <sub>1</sub>	10.9 mm
d <sub>n</sub>	90 mm
D <sub>1</sub>	102.7 mm
d <sub>2</sub>	87.3 mm
d <sub>1</sub>	87.3 mm
d <sub>1</sub>	87.3 mm
C <sub>3</sub>	3.4 mm
Bearing number	7015 CD/P4AL
Preload class B	115 N/micron
G <sub>ref</sub>	8.4 cm3
Preload class C	162 N/micron
Preload class D	235 N/micron
Preload class A	84 N/micron

Number of balls z	20
$d_a$ min.	81 mm
$D_a$ max.	109 mm
$d_b$ min.	81 mm
$D_b$ max.	111 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
Bore Diameter (mm)	115
Outer Diameter (mm)	75
$r_{1,2}$ min.	1.1 mm
$d_a$ - min.	81 mm
$d_b$ - min.	81 mm
$D_a$ - max.	109 mm
Calculation factor f	1.14
$r_b$ - max.	0.6 mm
$r_{3,4}$ min.	0.6 mm
$D_b$ - max.	111 mm
Ball - $D_w$	12.7 mm
$r_a$ - max.	1 mm
Calculation factor - f	1.14
$r_{3,4}$ - min.	0.6 mm
$r_{1,2}$ - min.	1.1 mm
Ball diameter $D_w$	12.7 mm
Basic dynamic load rating C	52.7 kN
Preload class B $G_B$	400 N
Preload class A $G_A$	200 N
Preload class D $G_D$	1600 N
Preload class C $G_C$	800 N
Basic dynamic load rating - C	52.7 kN
Preload class B - $G_B$	400 N

Preload class C - $G_C$	800 N
Preload class D - $G_D$	1600 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
Calculation factor $f_{2D}$	1.09
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2A}$	1
Calculation factor - f	1
Calculation factor $f_{2C}$	1.05
Fatigue load limit - $P_u$	2.1 kN
Limiting speed for oil lubrication	18000 mm/min
Calculation factor - $f_0$	15.7
Calculation factor - $f_{HC}$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2D}$	1.09
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.05
Limiting speed for grease lubrication	11000 r/min
Basic static load rating $C_0$	49 kN
Static axial stiffness, preload class B	115 N/ $\mu$ m
Static axial stiffness, preload class A	84 N/ $\mu$ m
Static axial stiffness, preload class C	162 N/ $\mu$ m
Static axial stiffness,	235 N/ $\mu$ m

preload class D	
Attainable speed for grease lubrication	11000 r/min
Basic static load rating - $C_0$	49 kN
Attainable speed for oil-air lubrication	18000 r/min
Reference grease quantity $G_{ref}$	8.4 cm <sup>3</sup>