



**Bearing No. 7015 CD/P4AH1**

K	0.5 mm
a	22.8 mm
d	75 mm
D	115 mm
B	20 mm
Ball - z	20
Size (mm)	115x75x20
Width (mm)	20
Mass bearing	0.63 kg
$d_n$	90 mm
$D_1$	102.7 mm
$d_1$	87.3 mm
$C_1$	5.4 mm
$D_1$	102.7 mm
$d_2$	87.3 mm
$C_1$	5.4 mm
$d_1$	87.3 mm
$d_n$	90 mm
$d_2$	87.3 mm
Bearing number	7015 CD/P4AH1
Preload class A	84 N/micron
Preload class D	235 N/micron
Preload class B	115 N/micron
Preload class C	162 N/micron
$G_{ref}$	8.4 cm <sup>3</sup>
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
$d_b$ min.	81 mm
$d_a$ min.	81 mm
Bore Diameter (mm)	115
Outer Diameter (mm)	75
$d_b$ - min.	81 mm
$r_b$ - max.	0.6 mm
$r_{1,2}$ min.	1.1 mm
$d_a$ - min.	81 mm
Calculation factor f	1.14
$r_a$ - max.	1 mm
$r_{3,4}$ min.	0.6 mm
$D_a$ - max.	109 mm
Ball - $D_w$	12.7 mm
$D_b$ - max.	111 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 D $G_D$	1600 N
Preload class A $G_A$	200 N
Preload class C $G_C$	800 N
Preload class B $G_B$	400 N
Basic dynamic load rating - C	52.7 kN
Preload class A - $G_A$	200 N
Preload class B - $G_B$	400 N
Preload class C - $G_C$	800 N
Preload class D - $G_D$	1600 N
Fatigue load limit $P_u$	2.08 kN

Calculation factor $f_1$	1
Calculation factor $f_0$	15.7
Calculation factor $f_{2D}$	1.09
Calculation factor - $f$	1
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{HC}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2A}$	1
Limiting speed for oil lubrication	18000 mm/min
Fatigue load limit - $P_u$	2.1 kN
Calculation factor - $f_0$	15.7
Calculation factor - $f_{2D}$	1.09
Calculation factor - $f_{HC}$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{2B}$	1.02
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 C	162 N/ $\mu$ m
Static axial stiffness, preload class A	84 N/ $\mu$ m
Static axial stiffness, preload class D	235 N/ $\mu$ m
Attainable speed for grease lubrication	11000 r/min
Attainable speed for oil-air lubrication	18000 r/min

Basic static load rating - $C_0$	49 kN
Reference grease quantity $G_{ref}$	8.4 cm <sup>3</sup>