



**Bearing No. 7015 CB/P4AL**

b	1.5 mm
d	75 mm
a	22.3 mm
B	20 mm
D	115 mm
Ball - z	30
Size (mm)	115x75x20
Width (mm)	20
Mass bearing	0.7 kg
d <sub>2</sub>	88.2 mm
D <sub>2</sub>	102.8 mm
d <sub>n</sub>	91.1 mm
C <sub>1</sub>	10.9 mm
C <sub>2</sub>	4.4 mm
C <sub>3</sub>	2.9 mm
C <sub>2</sub>	4.4 mm
C <sub>1</sub>	10.9 mm
d <sub>n</sub>	91.1 mm
D <sub>2</sub>	102.8 mm
d <sub>2</sub>	88.2 mm
d <sub>1</sub>	90 mm
d <sub>1</sub>	90 mm
C <sub>3</sub>	2.9 mm
Bearing number	7015 CB/P4AL
Preload class B	65 N/micron
G <sub>ref</sub>	7.7 cm3
Preload class C	104 N/micron
Preload class A	50 N/micron
Number of balls z	30

$d_a$ min.	81 mm
$d_b$ min.	81 mm
$D_a$ max.	109 mm
$D_b$ max.	111.8 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	1.08
$r_b$ - max.	0.6 mm
$r_{3,4}$ min.	0.6 mm
$r_a$ - max.	1 mm
$D_b$ - max.	111.8 mm
Ball - $D_w$	7.938 mm
$r_{3,4}$ - min.	0.6 mm
$r_{1,2}$ - min.	1.1 mm
Calculation factor - f	1.08
Ball diameter $D_w$	7.938 mm
Basic dynamic load rating C	26.5 kN
Preload class B $G_B$	130 N
Preload class C $G_C$	390 N
Preload class A $G_A$	65 N
Basic dynamic load rating - C	19.9 kN
Preload class A - $G_A$	65 N
Preload class B - $G_B$	130 N
Preload class C - $G_C$	390 N

Calculation factor $f_1$	1
Calculation factor $f_0$	9.7
Fatigue load limit $P_u$	0.75 kN
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2B}$	1.02
Calculation factor - $f$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{HC}$	1
Calculation factor - $f_0$	9.7
Limiting speed for oil lubrication	24000 mm/min
Fatigue load limit - $P_u$	0.75 kN
Calculation factor - $f_{HC}$	1
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2C}$	1.05
Limiting speed for grease lubrication	16000 r/min
Basic static load rating $C_0$	29 kN
Static axial stiffness, preload class A	50 N/ $\mu$ m
Static axial stiffness, preload class B	65 N/ $\mu$ m
Static axial stiffness, preload class C	104 N/ $\mu$ m
Attainable speed for grease lubrication	16000 r/min
Basic static load rating - $C_0$	17.6 kN
Attainable speed for oil-air lubrication	24000 r/min
Reference grease quantity $G_{ref}$	7.7 cm <sup>3</sup>

