



Bearing No. 71910 CB/P4A

Size	72x50x12 mm
Bore Diameter	72 mm
Outer Diameter	50 mm
Width	12 mm
d	50 mm
D	72 mm
B	12 mm
d <sub>1</sub>	57.95 mm
d <sub>2</sub>	56.9 mm
D <sub>2</sub>	66.04 mm
r <sub>1,2</sub> - min.	0.6 mm
r <sub>3,4</sub> - min.	0.3 mm
a	16.7 mm
d <sub>a</sub> - min.	53.2 mm
d <sub>b</sub> - min.	53.2 mm
D <sub>a</sub> - max.	68.8 mm
D <sub>b</sub> - max.	70 mm
r <sub>a</sub> - max.	0.6 mm
r <sub>b</sub> - max.	0.3 mm
d <sub>n</sub>	58.7 mm
Basic dynamic load rating - C	7.6 kN
Basic static load rating - C <sub>0</sub>	6.2 kN
Fatigue load limit - P <sub>u</sub>	0.265 kN
Limiting speed for grease lubrication	26000 r/min
Limiting speed for oil lubrication	38000 mm/min
Ball - D <sub>w</sub>	4.762 mm

Ball - z	29
G <sub>ref</sub>	1.89 cm <sup>3</sup>
Calculation factor - f <sub>0</sub>	9.8
Preload class A - G <sub>A</sub>	26 N
Preload class B - G <sub>B</sub>	52 N
Preload class C - G <sub>C</sub>	155 N
Calculation factor - f	1.09
Calculation factor - f	1
Calculation factor - f <sub>2A</sub>	1
Calculation factor - f <sub>2B</sub>	1.02
Calculation factor - f <sub>2C</sub>	1.07
Calculation factor - f <sub>HC</sub>	1
Preload class A	31 N/micron
Preload class B	40 N/micron
Preload class C	65 N/micron
d <sub>1</sub>	57.95 mm
d <sub>2</sub>	56.9 mm
D <sub>2</sub>	66.04 mm
r <sub>1,2</sub> min.	0.6 mm
r <sub>3,4</sub> min.	0.3 mm
d <sub>a</sub> min.	53.2 mm
d <sub>b</sub> min.	53.2 mm
D <sub>a</sub> max.	68.8 mm
D <sub>b</sub> max.	70 mm
r <sub>a</sub> max.	0.6 mm
r <sub>b</sub> max.	0.3 mm
d <sub>n</sub>	58.7 mm
Basic dynamic load rating C	10.4 kN
Basic static load rating C <sub>0</sub>	10.2 kN

Fatigue load limit $P_u$	0.265 kN
Attainable speed for grease lubrication	26000 r/min
Attainable speed for oil-air lubrication	38000 r/min
Ball diameter $D_w$	4.762 mm
Number of balls $z$	29
Reference grease quantity $G_{ref}$	1.89 cm <sup>3</sup>
Preload class A $G_A$	26 N
Static axial stiffness, preload class A	31 N/ $\mu$ m
Preload class B $G_B$	52 N
Static axial stiffness, preload class B	40 N/ $\mu$ m
Preload class C $G_C$	155 N
Static axial stiffness, preload class C	65 N/ $\mu$ m
Calculation factor $f$	1.09
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.07
Calculation factor $f_{HC}$	1
Calculation factor $f_0$	9.8
Mass bearing	0.13 kg