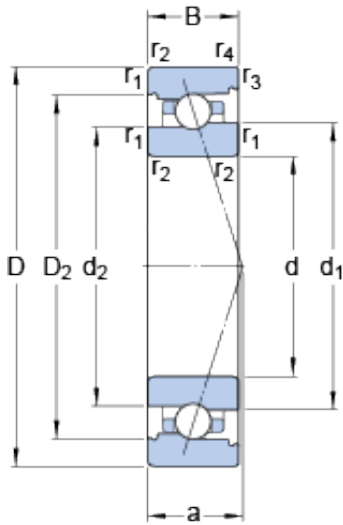




# PCI BEARING LTD

## 95 mm x 130 mm x 18 mm SKF 71919 ACB/HCP4A angular contact ball bearings

Bearing No. 71919 ACB/HCP4A



71919 ACB/HCP4A Bearing 2D drawings and 3D CAD models

Size	130x95x18 mm
Bore Diameter	130 mm
Outer Diameter	95 mm
Width	18 mm
d	95 mm
D	130 mm
B	18 mm
d <sub>1</sub>	107.94 mm
d <sub>2</sub>	106.36 mm
D <sub>2</sub>	120.7 mm
r <sub>1,2</sub> - min.	1.1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	40.2 mm
d <sub>a</sub> - min.	101 mm
d <sub>b</sub> - min.	101 mm
D <sub>a</sub> - max.	124 mm
D <sub>b</sub> - max.	126.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
d <sub>n</sub>	109 mm
Basic dynamic load rating - C	17.2 kN
Basic static load rating - C <sub>0</sub>	17.6 kN
Fatigue load limit - P <sub>u</sub>	0.71 kN
Limiting speed for grease	14000 r/min



## PCI BEARING LTD

Lubrication	
Limiting speed for oil lubrication	22000 mm/min
Ball - $D_w$	7.144 mm
Ball - $z$	38
$G_{ref}$	7.5 cm <sup>3</sup>
Calculation factor - $e$	0.68
Calculation factor - $Y_2$	0.87
Calculation factor - $Y_0$	0.38
Calculation factor - $X_2$	0.41
Calculation factor - $Y_1$	0.92
Calculation factor - $Y_2$	1.41
Calculation factor - $Y_0$	0.76
Calculation factor - $X_2$	0.67
Preload class A - $G_A$	105 N
Preload class B - $G_B$	210 N
Preload class C - $G_C$	630 N
Calculation factor - $f$	1.13
Calculation factor - $f_1$	0.99
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.08
Calculation factor - $f_{HC}$	1.01
Preload class A	165 N/micron
Preload class B	211 N/micron
Preload class C	320 N/micron
$d_1$	107.94 mm
$d_2$	106.36 mm
$D_2$	120.7 mm
$r_{1,2}$ min.	1.1 mm



## PCI BEARING LTD

$r_{3,4}$ min.	0.6 mm
$d_a$ min.	101 mm
$d_b$ min.	101 mm
$D_a$ max.	124 mm
$D_b$ max.	126.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
$d_n$	109 mm
Basic dynamic load rating C	22.9 kN
Basic static load rating $C_0$	28 kN
Fatigue load limit $P_u$	0.71 kN
Attainable speed for grease lubrication	14000 r/min
Attainable speed for oil-air lubrication	22000 r/min
Ball diameter $D_w$	7.144 mm
Number of balls z	38
Reference grease quantity $G_{ref}$	7.5 cm <sup>3</sup>
Preload class A $G_A$	105 N
Static axial stiffness, preload class A	165 N/ $\mu$ m
Preload class B $G_B$	210 N
Static axial stiffness, preload class B	211 N/ $\mu$ m
Preload class C $G_C$	630 N
Static axial stiffness, preload class C	320 N/ $\mu$ m
Calculation factor f	1.13
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.08
Calculation factor $f_{HC}$	1.01



## PCI BEARING LTD

Calculation factor e	0.68
Calculation factor (single, tandem) $Y_2$	0.87
Calculation factor (single, tandem) $Y_0$	0.38
Calculation factor (single, tandem) $X_2$	0.41
Calculation factor (back-to-back, face-to-face) $Y_1$	0.92
Calculation factor (back-to-back, face-to-face) $Y_2$	1.41
Calculation factor (back-to-back, face-to-face) $Y_0$	0.76
Calculation factor (back-to-back, face-to-face) $X_2$	0.67
Mass bearing	0.58 kg