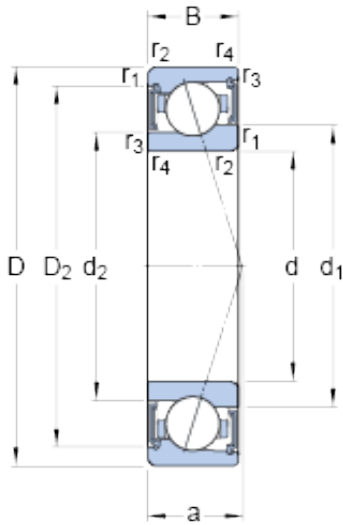




# Wuxi Shenbing Bearing Company Limited



S71917 ACE/HCP4A Bearing 2D drawings and 3D CAD models

## 85 mm x 120 mm x 18 mm SKF S71917 ACE/HCP4A angular contact ball bearings

Bearing No. S71917 ACE/HCP4A

Size	120x85x18 mm
Bore Diameter	120 mm
Outer Diameter	85 mm
Width	18 mm
d	85 mm
D	120 mm
B	18 mm
d <sub>1</sub>	96 mm
d <sub>2</sub>	92.9 mm
D <sub>2</sub>	112.3 mm
r <sub>1,2</sub> - min.	1.1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	34.1 mm
d <sub>a</sub> - min.	91 mm
d <sub>a</sub> - max.	95.4 mm
d <sub>b</sub> - min.	88.2 mm
d <sub>b</sub> - max.	92.3 mm
D <sub>a</sub> - max.	114 mm
D <sub>b</sub> - max.	116.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
Basic dynamic load rating - C	28.1 kN
Basic static load rating - C <sub>0</sub>	22 kN
Fatigue load limit - P <sub>u</sub>	0.9 kN



## Wuxi Shenbing Bearing Company Limited

Limiting speed for grease lubrication	16500 r/min
Ball - $D_w$	11.112 mm
Ball - $z$	23
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 - $G_A$	255 N
Preload class B - $G_B$	765 N
Preload class C - $G_C$	1529 N
Calculation factor - $f$	1.16
Calculation factor - $f_1$	0.98
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.04
Calculation factor - $f_{2C}$	1.08
Calculation factor - $f_{HC}$	1.01
Preload class A	175 N/micron
Preload class B	263 N/micron
Preload class C	346 N/micron
$d_1$	96 mm
$d_2$	92.9 mm
$D_2$	112.3 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
$d_a$ min.	91 mm



## Wuxi Shenbing Bearing Company Limited

$d_a$ max.	95.4 mm
$d_b$ min.	88.2 mm
$d_b$ max.	92.3 mm
$D_a$ max.	114 mm
$D_b$ max.	116.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
Basic dynamic load rating C	28.1 kN
Basic static load rating $C_0$	22 kN
Fatigue load limit $P_u$	0.9 kN
Attainable speed for grease lubrication	16500 r/min
Ball diameter $D_w$	11.112 mm
Number of balls z	23
Preload class A $G_A$	255 N
Static axial stiffness, preload class A	175 N/ $\mu$ m
Preload class B $G_B$	765 N
Static axial stiffness, preload class B	263 N/ $\mu$ m
Preload class C $G_C$	1529 N
Static axial stiffness, preload class C	346 N/ $\mu$ m
Calculation factor f	1.16
Calculation factor $f_1$	0.98
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.04
Calculation factor $f_{2C}$	1.08
Calculation factor $f_{HC}$	1.01
Calculation factor e	0.68
Calculation factor (single, tandem) $Y_2$	0.87
Calculation factor (single, tandem) $Y_0$	0.38



## Wuxi Shenbing Bearing Company Limited

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	0.44 kg