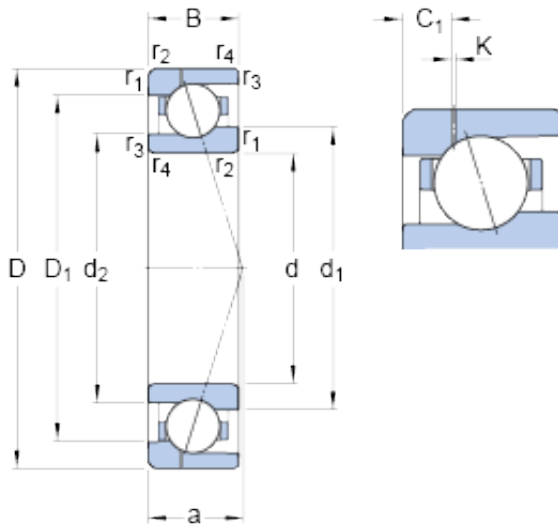




## BEARING SUDAMERICANA, S.A.



### 50 mm x 72 mm x 12 mm SKF 71910 ACE/P4AH1 angular contact ball bearings

Bearing No. 71910 ACE/P4AH1

71910 ACE/P4AH1 Bearing 2D drawings and 3D CAD models

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>	56.7 mm
d <sub>2</sub>	54.9 mm
D <sub>1</sub>	65.3 mm
K	0.5 mm
C <sub>1</sub>	3.53 mm
r <sub>1,2</sub> - min.	0.6 mm
r <sub>3,4</sub> - min.	0.3 mm
a	21.2 mm
d <sub>a</sub> - min.	53.2 mm
d <sub>b</sub> - min.	52 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>	58.4 mm
Basic dynamic load rating - C	12.1 kN
Basic static load rating - C <sub>0</sub>	8.2 kN



## BEARING SUDAMERICANA, S.A.

Fatigue load limit - $P_u$	0.345 kN
Limiting speed for grease lubrication	23000 r/min
Limiting speed for oil lubrication	36000 mm/min
Ball - $D_w$	7.144 mm
Ball - $z$	21
$G_{ref}$	1.7 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 - $G_A$	110 N
Preload class B - $G_B$	330 N
Preload class C - $G_C$	660 N
Calculation factor - $f$	1.15
Calculation factor - $f_1$	0.99
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.04
Calculation factor - $f_{2C}$	1.07
Calculation factor - $f_{HC}$	1
Preload class A	96 N/micron
Preload class B	145 N/micron
Preload class C	190 N/micron
$d_1$	56.7 mm
$d_2$	54.9 mm



## BEARING SUDAMERICANA, S.A.

$D_1$	65.3 mm
$C_1$	3.53 mm
$r_{1,2}$ min.	0.6 mm
$r_{3,4}$ min.	0.3 mm
$d_a$ min.	53.2 mm
$d_b$ min.	52 mm
$D_a$ max.	68.8 mm
$D_b$ max.	70 mm
$r_a$ max.	0.6 mm
$r_b$ max.	0.3 mm
$d_n$	58.4 mm
Basic dynamic load rating C	12.1 kN
Basic static load rating $C_0$	8.15 kN
Fatigue load limit $P_u$	0.345 kN
Attainable speed for grease lubrication	23000 r/min
Attainable speed for oil-air lubrication	36000 r/min
Ball diameter $D_w$	7.144 mm
Number of balls z	21
Reference grease quantity $G_{ref}$	1.7 cm <sup>3</sup>
Preload class A $G_A$	110 N
Static axial stiffness, preload class A	96 N/ $\mu$ m
Preload class B $G_B$	330 N
Static axial stiffness, preload class B	145 N/ $\mu$ m
Preload class C $G_C$	660 N
Static axial stiffness, preload class C	190 N/ $\mu$ m
Calculation factor f	1.15
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1



## BEARING SUDAMERICANA, S.A.

Calculation factor $f_{2B}$	1.04
Calculation factor $f_{2C}$	1.07
Calculation factor $f_{HC}$	1
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	0.13 kg