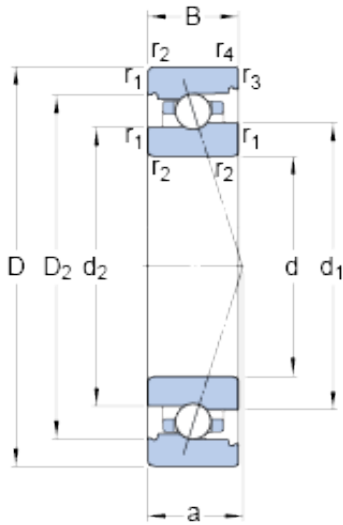




## ISO BEARING-SINGAPORE (PTE)LTD.



95 mm x 145 mm x 24 mm SKF 7019 ACB/P4A  
angular contact ball bearings

Bearing No. 7019 ACB/P4A

7019 ACB/P4A Bearing 2D drawings and 3D CAD models

Size	145x95x24 mm
Bore Diameter	145 mm
Outer Diameter	95 mm
Width	24 mm
d	95 mm
D	145 mm
B	24 mm
d <sub>1</sub>	113.7 mm
d <sub>2</sub>	111.15 mm
D <sub>2</sub>	130 mm
r <sub>1,2</sub> - min.	1.5 mm
r <sub>3,4</sub> - min.	1 mm
a	40.2 mm
d <sub>a</sub> - min.	102 mm
d <sub>b</sub> - min.	102 mm
D <sub>a</sub> - max.	138 mm
D <sub>b</sub> - max.	140.4 mm
r <sub>a</sub> - max.	1.5 mm
r <sub>b</sub> - max.	1 mm
d <sub>n</sub>	115 mm
Basic dynamic load rating - C	27.6 kN
Basic static load rating - C <sub>0</sub>	24.5 kN
Fatigue load limit - P <sub>u</sub>	0.95 kN
Limiting speed for grease	11000 r/min



## ISO BEARING-SINGAPORE (PTE)LTD.

Lubrication	
Limiting speed for oil lubrication	16000 mm/min
Ball - $D_w$	10.319 mm
Ball - $z$	26
$G_{ref}$	14.72 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 - $G_A$	165 N
Preload class B - $G_B$	330 N
Preload class C - $G_C$	990 N
Calculation factor - $f$	1.07
Calculation factor - $f_1$	0.99
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.01
Calculation factor - $f_{2C}$	1.04
Calculation factor - $f_{HC}$	1
Preload class A	147 N/micron
Preload class B	190 N/micron
Preload class C	286 N/micron
$d_1$	113.7 mm
$d_2$	111.15 mm
$D_2$	130 mm
$r_{1,2}$ min.	1.5 mm



## ISO BEARING-SINGAPORE (PTE)LTD.

$r_{3,4}$ min.	1 mm
$d_a$ min.	102 mm
$d_b$ min.	102 mm
$D_a$ max.	138 mm
$D_b$ max.	140.4 mm
$r_a$ max.	1.5 mm
$r_b$ max.	1 mm
$d_n$	115 mm
Basic dynamic load rating C	35.8 kN
Basic static load rating $C_0$	41.5 kN
Fatigue load limit $P_u$	0.95 kN
Attainable speed for grease lubrication	11000 r/min
Attainable speed for oil-air lubrication	16000 r/min
Ball diameter $D_w$	10.319 mm
Number of balls z	26
Reference grease quantity $G_{ref}$	14.72 cm <sup>3</sup>
Preload class A $G_A$	165 N
Static axial stiffness, preload class A	147 N/ $\mu$ m
Preload class B $G_B$	330 N
Static axial stiffness, preload class B	190 N/ $\mu$ m
Preload class C $G_C$	990 N
Static axial stiffness, preload class C	286 N/ $\mu$ m
Calculation factor f	1.07
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.01
Calculation factor $f_{2C}$	1.04
Calculation factor $f_{HC}$	1



## ISO BEARING-SINGAPORE (PTE)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	1.3 kg