



Bearing No. S7019 ACB/P4A

D	145 mm
d	95 mm
B	24 mm
a	40.2 mm
Ball - z	26
Size (mm)	145x95x24
Width (mm)	24
Mass bearing	1.3 kg
$D_2$	130 mm
$d_2$	111.15 mm
$d_1$	113.7 mm
$d_2$	111.15 mm
$D_2$	130 mm
$d_1$	113.7 mm
Bearing number	S7019 ACB/P4A
Preload class A	147 N/micron
Preload class B	190 N/micron
Preload class C	286 N/micron
Number of balls z	26
$r_b$ max.	1 mm
$r_a$ max.	1.5 mm
$D_b$ max.	140.4 mm
$D_a$ max.	138 mm
$d_b$ max.	110.4 mm
$d_b$ min.	102 mm
$d_a$ max.	112.9 mm
Bore Diameter (mm)	145
$d_a$ min.	102 mm
Outer Diameter (mm)	95
$d_a$ - max.	112.9 mm

$d_a$ - min.	102 mm
Calculation factor e	0.68
Calculation factor f	1.07
$d_b$ - max.	110.4 mm
$D_a$ - max.	138 mm
$r_a$ - max.	1.5 mm
$r_b$ - max.	1 mm
$d_b$ - min.	102 mm
$r_{3,4}$ min.	1 mm
$r_{1,2}$ min.	1.5 mm
Ball - $D_w$	10.319 mm
$D_b$ - max.	140.4 mm
$r_{3,4}$ - min.	1 mm
Calculation factor - f	1.07
Calculation factor - e	0.68
$r_{1,2}$ - min.	1.5 mm
Basic dynamic load rating C	35.8 kN
Ball diameter $D_w$	10.319 mm
Preload class A $G_A$	258 N
Basic dynamic load rating - C	27.6 kN
Preload class C $G_C$	990 N
Preload class B $G_B$	330 N
Preload class B - $G_B$	330 N
Preload class A - $G_A$	258 N
Preload class C - $G_C$	990 N
Calculation factor $f_1$	0.99
Fatigue load limit $P_u$	0.95 kN
Calculation factor $f_{HC}$	1
Calculation factor $f_{2C}$	1.04
Calculation factor $f_{2B}$	1.01

Calculation factor $f_{2A}$	1
Calculation factor - $X_2$	0.67
Calculation factor - $Y_0$	0.76
Calculation factor - $Y_1$	0.92
Calculation factor - $f_1$	0.99
Calculation factor - $Y_2$	1.41
Fatigue load limit - $P_u$	0.95 kN
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.01
Calculation factor - $f_{2C}$	1.04
Calculation factor - $f_{HC}$	1
Limiting speed for grease lubrication	11000 r/min
Basic static load rating $C_0$	41.5 kN
Static axial stiffness, preload class C	286 N/ $\mu$ m
Static axial stiffness, preload class B	190 N/ $\mu$ m
Attainable speed for grease lubrication	11000 r/min
Static axial stiffness, preload class A	147 N/ $\mu$ m
Basic static load rating - $C_0$	24.5 kN
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-	1.41

to-back, face-to-face) $Y_2$	
Calculation factor (back-to-back, face-to-face) $Y_0$	0.76
Calculation factor (back-to-back, face-to-face) $X_2$	0.67