



Bearing No. S7010 ACE/P4A

D	80 mm
d	50 mm
B	16 mm
a	23.3 mm
Ball - z	21
Size (mm)	80x50x16
Width (mm)	16
Mass bearing	0.26 kg
D ₂	72.9 mm
d ₂	57.9 mm
d ₁	60.25 mm
d ₂	57.9 mm
D ₂	72.9 mm
d ₁	60.25 mm
Bearing number	S7010 ACE/P4A
Preload class A	104 N/micron
Preload class B	156 N/micron
Preload class C	204 N/micron
Number of balls z	21
r _b max.	0.6 mm
r _a max.	1 mm
D _b max.	75.8 mm
D _a max.	75.4 mm
d _b max.	57.3 mm
d _b min.	54.6 mm
d _a max.	59.7 mm
Bore Diameter (mm)	80
d _a min.	54.6 mm
Outer Diameter (mm)	50
d _a - max.	59.7 mm

d_a - min.	54.6 mm
Calculation factor e	0.68
Calculation factor f	1.08
d_b - max.	57.3 mm
D_a - max.	75.4 mm
r_a - max.	1 mm
r_b - max.	0.6 mm
d_b - min.	54.6 mm
$r_{3,4}$ min.	0.6 mm
$r_{1,2}$ min.	1 mm
Ball - D_w	7.938 mm
D_b - max.	75.8 mm
$r_{3,4}$ - min.	0.6 mm
Calculation factor - f	1.08
Calculation factor - e	0.68
$r_{1,2}$ - min.	1 mm
Basic dynamic load rating C	14.8 kN
Ball diameter D_w	7.938 mm
Preload class A G_A	130 N
Basic dynamic load rating - C	14.8 kN
Preload class C G_C	800 N
Preload class B G_B	400 N
Preload class B - G_B	400 N
Preload class A - G_A	130 N
Preload class C - G_C	800 N
Calculation factor f_1	0.99
Fatigue load limit P_u	0.425 kN
Calculation factor f_{HC}	1
Calculation factor f_{2C}	1.06
Calculation factor f_{2B}	1.03

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	0.425 kN
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.03
Calculation factor - f_{2C}	1.06
Calculation factor - f_{HC}	1
Limiting speed for grease lubrication	23000 r/min
Basic static load rating C_0	10 kN
Static axial stiffness, preload class C	204 N/ μ m
Static axial stiffness, preload class B	156 N/ μ m
Attainable speed for grease lubrication	23000 r/min
Static axial stiffness, preload class A	104 N/ μ m
Basic static load rating - C_0	10 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