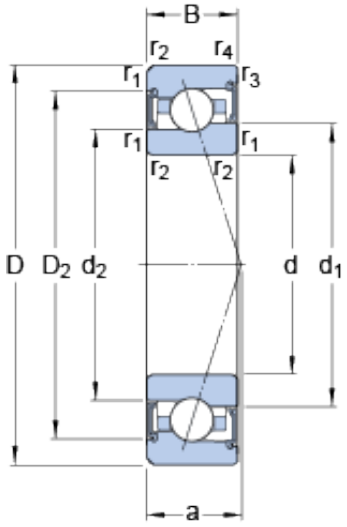
Loyal | S7005 ACE/P4A



Bearing No. S7005 ACE/P4A

D	47 mm
d	25 mm
B	12 mm
a	14.4 mm
Ball - z	14
Size (mm)	47x25x12
Width (mm)	12
Mass bearing	0.077 kg
D_2	41.5 mm
d_2	29.8 mm
d_1	31.6 mm
d_2	29.8 mm
D_2	41.5 mm
d_1	31.6 mm
Bearing number	S7005 ACE/P4A
Preload class A	59 N/micron
Preload class B	89 N/micron
Preload class C	117 N/micron
Number of balls z	14
r_b max.	0.3 mm
r_a max.	0.6 mm
D_b max.	44.6 mm
D_a max.	43.8 mm
d_b max.	29.4 mm
d_b min.	28.2 mm
d_a max.	31.2 mm
Bore Diameter (mm)	47
d_a min.	28.2 mm
Outer Diameter (mm)	25
d_a - max.	31.2 mm

d_a - min.	28.2 mm
Calculation factor e	0.68
Calculation factor f	1.05
d_b - max.	29.4 mm
D_a - max.	43.8 mm
r_a - max.	0.6 mm
r_b - max.	0.3 mm
d_b - min.	28.2 mm
$r_{3,4}$ min.	0.3 mm
$r_{1,2}$ min.	0.6 mm
Ball - D_w	6.35 mm
D_b - max.	44.6 mm
$r_{3,4}$ - min.	0.3 mm
Calculation factor - f	1.05
Calculation factor - e	0.68
$r_{1,2}$ - min.	0.6 mm
Basic dynamic load rating C	7.93 kN
Ball diameter D_w	6.35 mm
Preload class A G_A	70 N
Basic dynamic load rating - C	7.9 kN
Preload class C G_C	430 N
Preload class B G_B	210 N
Preload class B - G_B	210 N
Preload class A - G_A	70 N
Preload class C - G_C	430 N
Calculation factor f_1	0.99
Fatigue load limit P_u	0.166 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	0.166 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	42000 r/min
Basic static load rating C_0	3.9 kN
Static axial stiffness, preload class C	117 N/µm
Static axial stiffness, preload class B	89 N/µm
Attainable speed for grease lubrication	42000 r/min
Static axial stiffness, preload class A	59 N/µm
Basic static load rating - C_0	3.9 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