



Bearing No. S7009 ACE/P4A

a	22.2 mm
C	16 mm
d	45 mm
D	75 mm
B	16 mm
D2	66,9 mm
D1	66,9 mm
d2	53,6 mm
dh	57,6 mm
d1	55,7 mm
Db max	70,8 mm
Weight	0,24 Kg
db min	49,6 mm
r2 min.	1 mm
r3 min.	0,6 mm
r4 min.	0,6 mm
da min.	49,6 mm
Da max.	70,4 mm
ra max.	1 mm
rb max.	0,6 mm
r1 min.	1 mm
Size (mm)	45x75x16
Width (mm)	16
Mass bearing	0.25 kg
d ₁	55.7 mm
d ₂	53.6 mm
D ₂	66.85 mm
Bearing number	S7009 ACE/P4A
Number of balls z	21
d _b min.	49.6 mm

r_b max.	0.6 mm
r_a max.	1 mm
D_b max.	70.8 mm
D_a max.	70.4 mm
d_b max.	53 mm
Bore Diameter (mm)	45
d_a min.	49.6 mm
d_a max.	55.1 mm
Outer Diameter (mm)	75
$r_{3,4}$ min.	0.6 mm
Calculation factor e	0.68
Calculation factor f	1.06
$r_{1,2}$ min.	1 mm
Fatigue load limit (Pu)	0,345
(Oil) Lubrication Speed	37 000 r/min
(Grease) Lubrication Speed	24 000 r/min
Basic dynamic load rating C	12.1 kN
Ball diameter D_w	7.144 mm
Preload class C G_C	660 N
Preload class B G_B	330 N
Basic static load rating (C0)	8,15 kN
Preload class A G_A	110 N
Basic dynamic load rating (C)	12,1 kN
Fatigue load limit P_u	0.345 kN
Calculation factor f_1	0.99
Calculation factor f_{2C}	1.06
Calculation factor f_{HC}	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.03

Basic static load rating C_0	8.15 kN
Static axial stiffness, preload class C	183 N/ μ m
Static axial stiffness, preload class B	140 N/ μ m
Static axial stiffness, preload class A	94 N/ μ m
Attainable speed for grease lubrication	24000 r/min
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