



Bearing No. S7009 ACB/P4A

a	22.1 mm
C	16 mm
d	45 mm
D	75 mm
B	16 mm
D2	65,6 mm
D1	65,6 mm
d2	55,2 mm
dh	57,2 mm
d1	56,4 mm
Db max	71,8 mm
Weight	0,26 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	0.26 kg
d <sub>1</sub>	56.44 mm
d <sub>2</sub>	55.17 mm
D <sub>2</sub>	65.58 mm
Bearing number	S7009 ACB/P4A
Number of balls z	25
d <sub>b</sub> min.	49.6 mm

$r_b$ max.	0.6 mm
$r_a$ max.	1 mm
$D_b$ max.	71.8 mm
$D_a$ max.	70.4 mm
$d_b$ max.	54.6 mm
Bore Diameter (mm)	45
$d_a$ min.	49.6 mm
$d_a$ max.	55.8 mm
Outer Diameter (mm)	75
$r_{3,4}$ min.	0.6 mm
Calculation factor e	0.68
Calculation factor f	1.05
$r_{1,2}$ min.	1 mm
Fatigue load limit (Pu)	0,285
(Oil) Lubrication Speed	36 000 r/min
(Grease) Lubrication Speed	24 000 r/min
Basic dynamic load rating C	12.1 kN
Ball diameter $D_w$	5.556 mm
Preload class C $G_C$	330 N
Preload class B $G_B$	110 N
Basic static load rating (C0)	6,8 kN
Preload class A $G_A$	138 N
Basic dynamic load rating (C)	9,04 kN
Fatigue load limit $P_u$	0.285 kN
Calculation factor $f_1$	0.99
Calculation factor $f_{2C}$	1.04
Calculation factor $f_{HC}$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.01

Basic static load rating $C_0$	11.4 kN
Static axial stiffness, preload class C	157 N/ $\mu$ m
Static axial stiffness, preload class B	103 N/ $\mu$ m
Static axial stiffness, preload class A	79 N/ $\mu$ 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