



Bearing No. S7007 CE/P4A

D	62 mm
d	35 mm
B	14 mm
a	13.5 mm
Ball - z	17
Size (mm)	62x35x14
Width (mm)	14
Mass bearing	0.15 kg
$D_2$	54.85 mm
$d_2$	41.6 mm
$d_1$	43.7 mm
$d_2$	41.6 mm
$D_2$	54.85 mm
$d_1$	43.7 mm
Bearing number	S7007 CE/P4A
Preload class B	49 N/micron
Preload class A	31 N/micron
Preload class C	67 N/micron
Number of balls z	17
Bore Diameter (mm)	62
$d_a$ min.	39.6 mm
$d_a$ max.	43.1 mm
$d_b$ min.	39.6 mm
$d_b$ max.	41 mm
$D_a$ max.	57.4 mm
$D_b$ max.	57.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
Outer Diameter (mm)	35
$r_{3,4}$ min.	0.6 mm

$d_b$ - min.	39.6 mm
Calculation factor $f$	1.06
$d_a$ - max.	43.1 mm
$r_{1,2}$ min.	1 mm
$D_a$ - max.	57.4 mm
$d_b$ - max.	41 mm
$D_b$ - max.	57.8 mm
$r_a$ - max.	1 mm
$d_a$ - min.	39.6 mm
Ball - $D_w$	7.144 mm
$r_b$ - max.	0.6 mm
$r_{3,4}$ - min.	0.6 mm
Calculation factor - $f$	1.06
$r_{1,2}$ - min.	1 mm
Basic dynamic load rating C	11.4 kN
Ball diameter $D_w$	7.144 mm
Basic dynamic load rating - C	11.4 kN
Preload class A $G_A$	60 N
Preload class B $G_B$	180 N
Preload class C $G_C$	370 N
Preload class A - $G_A$	60 N
Preload class B - $G_B$	180 N
Preload class C - $G_C$	370 N
Fatigue load limit $P_u$	0.28 kN
Calculation factor $f_1$	1
Calculation factor $f_0$	7.9
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{HC}$	1
Calculation factor $f_{2B}$	1.03
Calculation factor $f_{2A}$	1

Calculation factor - $f$	1
Calculation factor - $f_0$	7.9
Fatigue load limit - $P_u$	0.28 kN
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{2B}$	1.03
Calculation factor - $f_{HC}$	1
Limiting speed for grease lubrication	34000 r/min
Basic static load rating $C_0$	6.55 kN
Static axial stiffness, preload class B	49 N/ $\mu$ m
Static axial stiffness, preload class C	67 N/ $\mu$ m
Static axial stiffness, preload class A	31 N/ $\mu$ m
Attainable speed for grease lubrication	34000 r/min
Basic static load rating - $C_0$	6.6 kN