



Bearing No. 7005 CE/P4AL1

b	1.4 mm
d	25 mm
a	10.8 mm
B	12 mm
D	47 mm
Ball - z	14
Size (mm)	47x25x12
Width (mm)	12
Mass bearing	0.074 kg
d <sub>2</sub>	29.8 mm
D <sub>1</sub>	39.21 mm
d <sub>n</sub>	33.1 mm
C <sub>1</sub>	3.2 mm
C <sub>2</sub>	1.45 mm
C <sub>3</sub>	1.9 mm
C <sub>2</sub>	1.45 mm
C <sub>1</sub>	3.2 mm
d <sub>n</sub>	33.1 mm
D <sub>1</sub>	39.21 mm
d <sub>2</sub>	29.8 mm
d <sub>1</sub>	31.6 mm
d <sub>1</sub>	31.6 mm
C <sub>3</sub>	1.9 mm
Bearing number	7005 CE/P4AL1
Preload class B	37 N/micron
G <sub>ref</sub>	1.3 cm3
Preload class C	50 N/micron
Preload class A	24 N/micron
Number of balls z	14

$d_a$ min.	28.2 mm
$d_b$ min.	28.2 mm
$D_a$ max.	43.8 mm
$D_b$ max.	44.6 mm
$r_a$ max.	0.6 mm
$r_b$ max.	0.3 mm
Bore Diameter (mm)	47
Outer Diameter (mm)	25
$r_{1,2}$ min.	0.6 mm
$d_a$ - min.	28.2 mm
$d_b$ - min.	28.2 mm
$D_a$ - max.	43.8 mm
Calculation factor f	1.05
$r_b$ - max.	0.3 mm
$r_{3,4}$ min.	0.3 mm
$r_a$ - max.	0.6 mm
$D_b$ - max.	44.6 mm
Ball - $D_w$	6.35 mm
$r_{3,4}$ - min.	0.3 mm
$r_{1,2}$ - min.	0.6 mm
Calculation factor - f	1.05
Ball diameter $D_w$	6.35 mm
Basic dynamic load rating C	8.32 kN
Preload class B $G_B$	130 N
Preload class C $G_C$	260 N
Preload class A $G_A$	45 N
Basic dynamic load rating - C	8.3 kN
Preload class A - $G_A$	45 N
Preload class B - $G_B$	130 N
Preload class C - $G_C$	260 N

Calculation factor $f_1$	1
Calculation factor $f_0$	7.5
Fatigue load limit $P_u$	0.173 kN
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2B}$	1.03
Calculation factor - $f$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{HC}$	1
Calculation factor - $f_0$	7.5
Limiting speed for oil lubrication	70000 mm/min
Fatigue load limit - $P_u$	0.173 kN
Calculation factor - $f_{HC}$	1
Calculation factor - $f_{2B}$	1.03
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2C}$	1.05
Limiting speed for grease lubrication	46000 r/min
Basic static load rating $C_0$	4.15 kN
Static axial stiffness, preload class A	24 N/ $\mu$ m
Static axial stiffness, preload class B	37 N/ $\mu$ m
Static axial stiffness, preload class C	50 N/ $\mu$ m
Attainable speed for grease lubrication	46000 r/min
Basic static load rating - $C_0$	4.2 kN
Attainable speed for oil-air lubrication	70000 r/min
Reference grease quantity $G_{ref}$	1.3 cm <sup>3</sup>

