



Bearing No. 7005 CE/P4AH1

K	0.5 mm
a	10.8 mm
d	25 mm
D	47 mm
B	12 mm
Ball - z	14
Size (mm)	47x25x12
Width (mm)	12
Mass bearing	0.074 kg
d_n	33.1 mm
D_1	39.21 mm
d_1	31.6 mm
C_1	3.72 mm
D_1	39.21 mm
d_2	29.8 mm
C_1	3.72 mm
d_1	31.6 mm
d_n	33.1 mm
d_2	29.8 mm
Bearing number	7005 CE/P4AH1
Preload class B	37 N/micron
Preload class C	50 N/micron
G_{ref}	1.3 cm3
Preload class A	24 N/micron
Number of balls z	14
D_a max.	43.8 mm
d_a min.	28.2 mm
d_b min.	28.2 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_b - max.	0.3 mm
$r_{1,2}$ min.	0.6 mm
d_a - min.	28.2 mm
Calculation factor f	1.05
r_a - max.	0.6 mm
$r_{3,4}$ min.	0.3 mm
d_b - min.	28.2 mm
Ball - D_w	6.35 mm
D_a - max.	43.8 mm
D_b - max.	44.6 mm
Calculation factor - f	1.05
$r_{3,4}$ - min.	0.3 mm
$r_{1,2}$ - min.	0.6 mm
Basic dynamic load rating C	8.32 kN
Ball diameter D_w	6.35 mm
Preload class C G_C	260 N
Preload class B G_B	130 N
Preload class A G_A	45 N
Basic dynamic load rating - C	8.3 kN
Preload class C - G_C	260 N
Preload class A - G_A	45 N
Preload class B - G_B	130 N
Calculation factor f_1	1
Calculation factor f_0	7.5
Fatigue load limit P_u	0.173 kN
Calculation factor - f	1

Calculation factor f_{HC}	1
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.03
Calculation factor f_{2A}	1
Fatigue load limit - P_u	0.173 kN
Limiting speed for oil lubrication	70000 mm/min
Calculation factor - f_0	7.5
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2B}	1.03
Calculation factor - f_{HC}	1
Calculation factor - f_{2A}	1
Limiting speed for grease lubrication	46000 r/min
Basic static load rating C_0	4.15 kN
Static axial stiffness, preload class C	50 N/ μ m
Static axial stiffness, preload class A	24 N/ μ m
Attainable speed for grease lubrication	46000 r/min
Static axial stiffness, preload class B	37 N/ μ m
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 ³