



Bearing No. 7008 CE/HCP4AH1

K	0.5 mm
a	14.8 mm
d	40 mm
D	68 mm
B	15 mm
Ball - z	19
Size (mm)	40x68x15
Width (mm)	15
Mass bearing	0.17 kg
d_n	51.6 mm
D_1	58.25 mm
d_1	49.7 mm
C_1	5.03 mm
D_1	58.25 mm
d_2	47.6 mm
C_1	5.03 mm
d_1	49.7 mm
d_n	51.6 mm
d_2	47.6 mm
Bearing number	7008 CE/HCP4AH1
Preload class B	60 N/micron
Preload class C	81 N/micron
G_{ref}	2.8 cm3
Preload class A	38 N/micron
Number of balls z	19
D_a max.	63.4 mm
d_a min.	44.6 mm
d_b min.	44.6 mm
D_b max.	63.8 mm

r_a max.	1 mm
r_b max.	0.6 mm
Bore Diameter (mm)	40
Outer Diameter (mm)	68
r_b - max.	0.6 mm
$r_{1,2}$ min.	1 mm
d_a - min.	44.6 mm
Calculation factor f	1.06
r_a - max.	1 mm
$r_{3,4}$ min.	0.6 mm
d_b - min.	44.6 mm
Ball - D_w	7.144 mm
D_a - max.	63.4 mm
D_b - max.	63.8 mm
Calculation factor - f	1.06
$r_{3,4}$ - min.	0.6 mm
$r_{1,2}$ - min.	1 mm
Basic dynamic load rating C	12.4 kN
Ball diameter D_w	7.144 mm
Preload class C G_C	390 N
Preload class B G_B	200 N
Preload class A G_A	65 N
Basic dynamic load rating - C	12.4 kN
Preload class C - G_C	390 N
Preload class A - G_A	65 N
Preload class B - G_B	200 N
Calculation factor f_1	1
Calculation factor f_0	8.1
Fatigue load limit P_u	0.32 kN
Calculation factor - f	1

Calculation factor f_{HC}	1.01
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.03
Calculation factor f_{2A}	1
Fatigue load limit - P_u	0.32 kN
Limiting speed for oil lubrication	56000 mm/min
Calculation factor - f_0	8.1
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2B}	1.03
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2A}	1
Limiting speed for grease lubrication	36000 r/min
Basic static load rating C_0	7.65 kN
Static axial stiffness, preload class C	81 N/ μ m
Static axial stiffness, preload class A	38 N/ μ m
Attainable speed for grease lubrication	36000 r/min
Static axial stiffness, preload class B	60 N/ μ m
Basic static load rating - C_0	7.6 kN
Attainable speed for oil-air lubrication	56000 r/min
Reference grease quantity G_{ref}	2.8 cm ³