



Bearing No. 7019 CE/HCP4AL

b	2.2 mm
d	95 mm
a	28.2 mm
B	24 mm
D	145 mm
Ball - z	26
Size (mm)	145x95x24
Width (mm)	24
Mass bearing	1.08 kg
d ₂	109.2 mm
D ₁	127.61 mm
d _n	115.4 mm
C ₁	13.4 mm
C ₂	4.3 mm
C ₃	4.3 mm
C ₂	4.3 mm
C ₁	13.4 mm
d _n	115.4 mm
D ₁	127.61 mm
d ₂	109.2 mm
d ₁	112.38 mm
d ₁	112.38 mm
C ₃	4.3 mm
Bearing number	7019 CE/HCP4AL
Preload class B	148 N/micron
G _{ref}	17 cm3
Preload class C	204 N/micron
Preload class A	93 N/micron
Number of balls z	26

d_a min.	102 mm
d_b min.	102 mm
D_a max.	138 mm
D_b max.	139.4 mm
r_a max.	1.5 mm
r_b max.	1 mm
Bore Diameter (mm)	145
Outer Diameter (mm)	95
$r_{1,2}$ min.	1.5 mm
d_a - min.	102 mm
d_b - min.	102 mm
D_a - max.	138 mm
Calculation factor f	1.11
r_b - max.	1 mm
$r_{3,4}$ min.	1 mm
r_a - max.	1.5 mm
D_b - max.	139.4 mm
Ball - D_w	12.7 mm
$r_{3,4}$ - min.	1 mm
$r_{1,2}$ - min.	1.5 mm
Calculation factor - f	1.11
Ball diameter D_w	12.7 mm
Basic dynamic load rating C	44.2 kN
Preload class B G_B	700 N
Preload class C G_C	1400 N
Preload class A G_A	230 N
Basic dynamic load rating - C	44.2 kN
Preload class A - G_A	230 N
Preload class B - G_B	700 N
Preload class C - G_C	1400 N

Calculation factor f_1	1
Calculation factor f_0	9.4
Fatigue load limit P_u	1.46 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}	1.01
Calculation factor - f_0	9.4
Limiting speed for oil lubrication	23000 mm/min
Fatigue load limit - P_u	1.5 kN
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2B}	1.03
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.05
Limiting speed for grease lubrication	15000 r/min
Basic static load rating C_0	38 kN
Static axial stiffness, preload class A	93 N/ μ m
Static axial stiffness, preload class B	148 N/ μ m
Static axial stiffness, preload class C	204 N/ μ m
Attainable speed for grease lubrication	15000 r/min
Basic static load rating - C_0	38 kN
Attainable speed for oil-air lubrication	23000 r/min
Reference grease quantity G_{ref}	17 cm ³

