



Bearing No. 7019 CE/P4AL1

b	1.8 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	1.21 kg
$d_2$	109.2 mm
$D_1$	127.61 mm
$d_n$	115.4 mm
$C_1$	7.1 mm
$C_2$	4.3 mm
$C_3$	4.3 mm
$C_2$	4.3 mm
$C_1$	7.1 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/P4AL1
Preload class B	133 N/micron
$G_{ref}$	17 cm3
Preload class C	184 N/micron
Preload class A	84 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
Calculation factor - $f_0$	9.4
Limiting speed for oil lubrication	20000 mm/min
Fatigue load limit - $P_u$	1.5 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	12700 r/min
Basic static load rating $C_0$	38 kN
Static axial stiffness, preload class A	84 N/ $\mu$ m
Static axial stiffness, preload class B	133 N/ $\mu$ m
Static axial stiffness, preload class C	184 N/ $\mu$ m
Attainable speed for grease lubrication	12700 r/min
Basic static load rating - $C_0$	38 kN
Attainable speed for oil-air lubrication	20000 r/min
Reference grease quantity $G_{ref}$	17 cm <sup>3</sup>

