



**Bearing No. S7019 CE/HCP4A**

D	145 mm
d	95 mm
B	24 mm
a	28.2 mm
Ball - z	26
Size (mm)	145x95x24
Width (mm)	24
Mass bearing	1.14 kg
D <sub>2</sub>	131 mm
d <sub>2</sub>	109.2 mm
d <sub>1</sub>	112.38 mm
d <sub>2</sub>	109.2 mm
D <sub>2</sub>	131 mm
d <sub>1</sub>	112.38 mm
Bearing number	S7019 CE/HCP4A
Preload class B	148 N/micron
Preload class A	93 N/micron
Preload class C	204 N/micron
Number of balls z	26
Bore Diameter (mm)	145
d <sub>a</sub> min.	102 mm
d <sub>a</sub> max.	111.7 mm
d <sub>b</sub> min.	102 mm
d <sub>b</sub> max.	108.5 mm
D <sub>a</sub> max.	138 mm
D <sub>b</sub> max.	139.4 mm
r <sub>a</sub> max.	1.5 mm
r <sub>b</sub> max.	1 mm
Outer Diameter (mm)	95
r <sub>3,4</sub> min.	1 mm

$d_b$ - min.	102 mm
Calculation factor $f$	1.11
$d_a$ - max.	111.7 mm
$r_{1,2}$ min.	1.5 mm
$D_a$ - max.	138 mm
$d_b$ - max.	108.5 mm
$D_b$ - max.	139.4 mm
$r_a$ - max.	1.5 mm
$d_a$ - min.	102 mm
Ball - $D_w$	12.7 mm
$r_b$ - max.	1 mm
$r_{3,4}$ - min.	1 mm
Calculation factor - $f$	1.11
$r_{1,2}$ - min.	1.5 mm
Basic dynamic load rating C	44.2 kN
Ball diameter $D_w$	12.7 mm
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
Preload class A - $G_A$	230 N
Preload class B - $G_B$	700 N
Preload class C - $G_C$	1400 N
Fatigue load limit $P_u$	1.46 kN
Calculation factor $f_1$	1
Calculation factor $f_0$	9.4
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{HC}$	1.01
Calculation factor $f_{2B}$	1.03
Calculation factor $f_{2A}$	1

Calculation factor - $f$	1
Calculation factor - $f_0$	9.4
Fatigue load limit - $P_u$	1.5 kN
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{2B}$	1.03
Calculation factor - $f_{HC}$	1.01
Limiting speed for grease lubrication	15000 r/min
Basic static load rating $C_0$	38 kN
Static axial stiffness, preload class B	148 N/ $\mu$ m
Static axial stiffness, preload class C	204 N/ $\mu$ m
Static axial stiffness, preload class A	93 N/ $\mu$ m
Attainable speed for grease lubrication	15000 r/min
Basic static load rating - $C_0$	38 kN