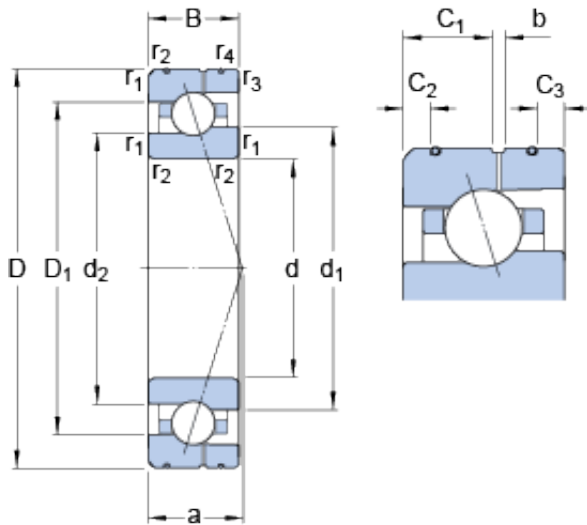




BEARING CORP. LTD.



95 mm x 145 mm x 24 mm SKF 7019 CE/P4AL
angular contact ball bearings

Bearing No. 7019 CE/P4AL

7019 CE/P4AL Bearing 2D drawings and 3D CAD models

Size	145x95x24 mm
Bore Diameter	145 mm
Outer Diameter	95 mm
Width	24 mm
d	95 mm
D	145 mm
B	24 mm
d ₁	112.38 mm
d ₂	109.2 mm
D ₁	127.61 mm
b	2.2 mm
C ₁	13.4 mm
C ₂	4.3 mm
C ₃	4.3 mm
r _{1,2} - min.	1.5 mm
r _{3,4} - min.	1 mm
a	28.2 mm
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
d _n	115.4 mm



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Basic dynamic load rating - C	44.2 kN
Basic static load rating - C ₀	38 kN
Fatigue load limit - P _u	1.5 kN
Limiting speed for grease lubrication	12700 r/min
Limiting speed for oil lubrication	20000 mm/min
Ball - D _w	12.7 mm
Ball - z	26
G _{ref}	17 cm ³
Calculation factor - f ₀	9.4
Preload class A - G _A	230 N
Preload class B - G _B	700 N
Preload class C - G _C	1400 N
Calculation factor - f	1.11
Calculation factor - f	1
Calculation factor - f _{2A}	1
Calculation factor - f _{2B}	1.03
Calculation factor - f _{2C}	1.05
Calculation factor - f _{HC}	1
Preload class A	84 N/micron
Preload class B	133 N/micron
Preload class C	184 N/micron
d ₁	112.38 mm
d ₂	109.2 mm
D ₁	127.61 mm
C ₁	13.4 mm
C ₂	4.3 mm
C ₃	4.3 mm
r _{1,2} min.	1.5 mm



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$r_{3,4}$ min.	1 mm
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
d_n	115.4 mm
Basic dynamic load rating C	44.2 kN
Basic static load rating C_0	38 kN
Fatigue load limit P_u	1.46 kN
Attainable speed for grease lubrication	12700 r/min
Attainable speed for oil-air lubrication	20000 r/min
Ball diameter D_w	12.7 mm
Number of balls z	26
Reference grease quantity G_{ref}	17 cm ³
Preload class A G_A	230 N
Static axial stiffness, preload class A	84 N/ μ m
Preload class B G_B	700 N
Static axial stiffness, preload class B	133 N/ μ m
Preload class C G_C	1400 N
Static axial stiffness, preload class C	184 N/ μ m
Calculation factor f	1.11
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.03
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1



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Calculation factor f_0	9.4
Mass bearing	1.21 kg