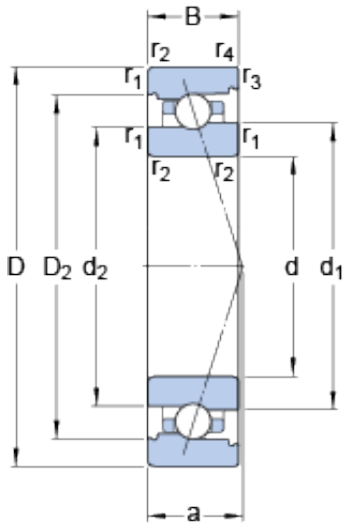




GARLOCK BEARINGS LTD



71906 CB/HCP4A SKF High Speed Angular Contact Ball Bearings

Bearing No. 71906 CB/HCP4A

71906 CB/HCP4A Bearing 2D drawings and 3D CAD models

Size	47x30x9 mm
Bore Diameter	47 mm
Outer Diameter	30 mm
Width	9 mm
d	30 mm
D	47 mm
B	9 mm
d ₁	35.95 mm
d ₂	35.1 mm
D ₂	43 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.15 mm
a	12.2 mm
d _a - min.	32 mm
d _b - min.	32 mm
D _a - max.	45 mm
D _b - max.	46.2 mm
r _a - max.	0.3 mm
r _b - max.	0.15 mm
d _n	36.6 mm
Basic dynamic load rating - C	4.9 kN
Basic static load rating - C ₀	3.2 kN
Fatigue load limit - P _u	0.134 kN
Limiting speed for grease	48000 r/min



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Lubrication	
Limiting speed for oil lubrication	75000 mm/min
Ball - D_w	3.969 mm
Ball - z	22
G_{ref}	0.72 cm ³
Calculation factor - f_0	9.5
Preload class A - G_A	16 N
Preload class B - G_B	32 N
Preload class C - G_C	96 N
Calculation factor - f	1.07
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.03
Calculation factor - f_{2C}	1.08
Calculation factor - f_{HC}	1.01
Preload class A	23 N/micron
Preload class B	30 N/micron
Preload class C	48 N/micron
d_1	35.95 mm
d_2	35.1 mm
D_2	43 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.15 mm
d_a min.	32 mm
d_b min.	32 mm
D_a max.	45 mm
D_b max.	46.2 mm
r_a max.	0.3 mm
r_b max.	0.15 mm
d_n	36.6 mm



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Basic dynamic load rating C	6.37 kN
Basic static load rating C_0	5.2 kN
Fatigue load limit P_u	0.134 kN
Attainable speed for grease lubrication	48000 r/min
Attainable speed for oil-air lubrication	75000 r/min
Ball diameter D_w	3.969 mm
Number of balls z	22
Reference grease quantity G_{ref}	0.72 cm ³
Preload class A G_A	16 N
Static axial stiffness, preload class A	23 N/ μ m
Preload class B G_B	32 N
Static axial stiffness, preload class B	30 N/ μ m
Preload class C G_C	96 N
Static axial stiffness, preload class C	48 N/ μ m
Calculation factor f	1.07
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.03
Calculation factor f_{2C}	1.08
Calculation factor f_{HC}	1.01
Calculation factor f_0	9.5
Mass bearing	0.044 kg