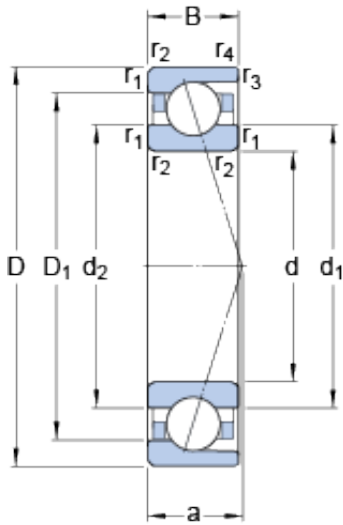




GARLOCK BEARINGS LTD



71906 CD/HCP4A SKF High Speed Angular Contact Ball Bearings

Bearing No. 71906 CD/HCP4A

71906 CD/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	35.6 mm
d ₂	35.6 mm
D ₁	41.4 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.2 mm
a	9.7 mm
d _a - min.	32 mm
d _b - min.	32 mm
D _a - max.	45 mm
D _b - max.	45.6 mm
r _a - max.	0.3 mm
r _b - max.	0.2 mm
d _n	36.8 mm
Basic dynamic load rating - C	7.2 kN
Basic static load rating - C ₀	4.6 kN
Fatigue load limit - P _u	0.193 kN
Limiting speed for grease	38000 r/min



GARLOCK BEARINGS LTD

Lubrication	
Limiting speed for oil lubrication	53000 mm/min
Ball - D_w	4.762 mm
Ball - z	20
G_{ref}	0.63 cm ³
Calculation factor - f_0	10.4
Preload class A - G_A	25 N
Preload class B - G_B	50 N
Preload class C - G_C	100 N
Preload class D - G_D	200 N
Calculation factor - f	1.08
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.07
Calculation factor - f_{2C}	1.12
Calculation factor - f_{2D}	1.18
Calculation factor - f_{HC}	1.04
Preload class A	29 N/micron
Preload class B	39 N/micron
Preload class C	53 N/micron
Preload class D	74 N/micron
d_1	35.6 mm
d_2	35.6 mm
D_1	41.4 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.2 mm
d_a min.	32 mm
d_b min.	32 mm
D_a max.	45 mm



GARLOCK BEARINGS LTD

D_b max.	45.6 mm
r_a max.	0.3 mm
r_b max.	0.2 mm
d_n	36.8 mm
Basic dynamic load rating C	7.15 kN
Basic static load rating C_0	4.55 kN
Fatigue load limit P_u	0.193 kN
Attainable speed for grease lubrication	38000 r/min
Attainable speed for oil-air lubrication	53000 r/min
Ball diameter D_w	4.762 mm
Number of balls z	20
Reference grease quantity G_{ref}	0.63 cm ³
Preload class A G_A	25 N
Static axial stiffness, preload class A	29 N/ μ m
Preload class B G_B	50 N
Static axial stiffness, preload class B	39 N/ μ m
Preload class C G_C	100 N
Static axial stiffness, preload class C	53 N/ μ m
Preload class D G_D	200 N
Static axial stiffness, preload class D	74 N/ μ m
Calculation factor f	1.08
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.07
Calculation factor f_{2C}	1.12
Calculation factor f_{2D}	1.18
Calculation factor f_{HC}	1.04



GARLOCK BEARINGS LTD

Calculation factor f_0	10.4
Mass bearing	0.045 kg