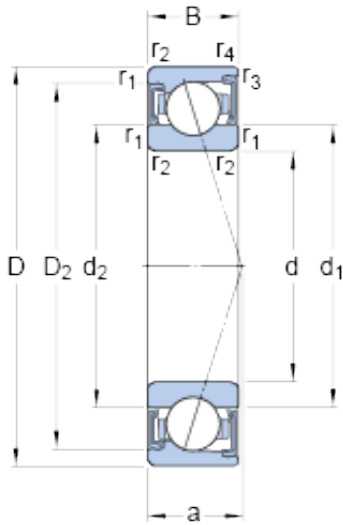




Bearing Driveshaft do Brasil



12 mm x 24 mm x 6 mm SKF S71901
ACD/HCP4A angular contact ball bearings

Bearing No. S71901 ACD/HCP4A

S71901 ACD/HCP4A Bearing 2D drawings and 3D
CAD models

Size	24x12x6 mm
Bore Diameter	24 mm
Outer Diameter	12 mm
Width	6 mm
d	12 mm
D	24 mm
B	6 mm
d ₁	16 mm
d ₂	16 mm
D ₂	21.8 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.2 mm
a	7.3 mm
d _a - min.	14 mm
d _a - max.	15.6 mm
d _b - min.	14 mm
d _b - max.	15.6 mm
D _a - max.	22 mm
D _b - max.	22.6 mm
r _a - max.	0.3 mm
r _b - max.	0.2 mm
Basic dynamic load rating - C	2.6 kN
Basic static load rating - C ₀	1.2 kN
Fatigue load limit - P _u	0.05 kN



Bearing Driveshaft do Brasil

Limiting speed for grease lubrication	67000 r/min
Ball - D_w	3.175 mm
Ball - z	13
Calculation factor - e	0.68
Calculation factor - Y_2	0.87
Calculation factor - Y_0	0.38
Calculation factor - X_2	0.41
Calculation factor - Y_1	0.92
Calculation factor - Y_2	1.41
Calculation factor - Y_0	0.76
Calculation factor - X_2	0.67
Preload class A - G_A	15 N
Preload class B - G_B	30 N
Preload class C - G_C	60 N
Preload class D - G_D	120 N
Calculation factor - f	1.04
Calculation factor - f_1	0.98
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.07
Calculation factor - f_{2C}	1.12
Calculation factor - f_{2D}	1.17
Calculation factor - f_{HC}	1.04
Preload class A	34 N/micron
Preload class B	44 N/micron
Preload class C	57 N/micron
Preload class D	76 N/micron
d_1	16 mm
d_2	16 mm
D_2	21.8 mm



Bearing Driveshaft do Brasil

$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.2 mm
d_a min.	14 mm
d_a max.	15.6 mm
d_b min.	14 mm
d_b max.	15.6 mm
D_a max.	22 mm
D_b max.	22.6 mm
r_a max.	0.3 mm
r_b max.	0.2 mm
Basic dynamic load rating C	2.55 kN
Basic static load rating C_0	1.18 kN
Fatigue load limit P_u	0.05 kN
Attainable speed for grease lubrication	67000 r/min
Ball diameter D_w	3.175 mm
Number of balls z	13
Preload class A G_A	15 N
Static axial stiffness, preload class A	34 N/ μ m
Preload class B G_B	30 N
Static axial stiffness, preload class B	44 N/ μ m
Preload class C G_C	60 N
Static axial stiffness, preload class C	57 N/ μ m
Preload class D G_D	120 N
Static axial stiffness, preload class D	76 N/ μ m
Calculation factor f	1.04
Calculation factor f_1	0.98
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.07
Calculation factor f_{2C}	1.12



Bearing Driveshaft do Brasil

Calculation factor f_{2D}	1.17
Calculation factor f_{HC}	1.04
Calculation factor e	0.68
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (single, tandem) Y_0	0.38
Calculation factor (single, tandem) X_2	0.41
Calculation factor (back-to-back, face-to-face) Y_1	0.92
Calculation factor (back-to-back, face-to-face) Y_2	1.41
Calculation factor (back-to-back, face-to-face) Y_0	0.76
Calculation factor (back-to-back, face-to-face) X_2	0.67
Mass bearing	0.01 kg