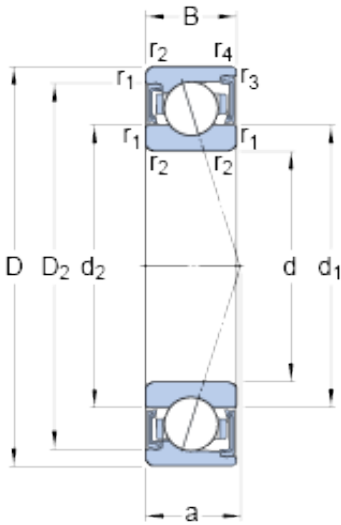




Timken BEARING CORP.of CANADA LTD.



S7030 CD/HCP4A Bearing 2D drawings and 3D CAD models

150 mm x 225 mm x 35 mm SKF S7030
CD/HCP4A angular contact ball bearings

Bearing No. S7030 CD/HCP4A

Size	225x150x35 mm
Bore Diameter	225 mm
Outer Diameter	150 mm
Width	35 mm
d	150 mm
D	225 mm
B	35 mm
d ₁	173.1 mm
d ₂	173.1 mm
D ₂	206.6 mm
r _{1,2} - min.	2.1 mm
r _{3,4} - min.	1 mm
a	42.7 mm
d _a - min.	161 mm
d _a - max.	172.3 mm
d _b - min.	161 mm
d _b - max.	172.3 mm
D _a - max.	214 mm
D _b - max.	220 mm
r _a - max.	2 mm
r _b - max.	1 mm
Basic dynamic load rating - C	172 kN
Basic static load rating - C ₀	190 kN
Fatigue load limit - P _u	5.8 kN



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Limiting speed for grease lubrication	7000 r/min
Ball - D_w	23.812 mm
Ball - z	22
Calculation factor - f_0	15.8
Preload class A - G_A	650 N
Preload class B - G_B	1300 N
Preload class C - G_C	2600 N
Preload class D - G_D	5200 N
Calculation factor - f	1.16
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2D}	1.09
Calculation factor - f_{HC}	1.02
Preload class A	180 N/micron
Preload class B	245 N/micron
Preload class C	344 N/micron
Preload class D	498 N/micron
d_1	173.1 mm
d_2	173.1 mm
D_2	206.6 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1 mm
d_a min.	161 mm
d_a max.	172.3 mm
d_b min.	161 mm
d_b max.	172.3 mm
D_a max.	214 mm
D_b max.	220 mm



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r_a max.	2 mm
r_b max.	1 mm
Basic dynamic load rating C	172 kN
Basic static load rating C_0	190 kN
Fatigue load limit P_u	5.85 kN
Attainable speed for grease lubrication	7000 r/min
Ball diameter D_w	23.812 mm
Number of balls z	22
Preload class A G_A	650 N
Static axial stiffness, preload class A	180 N/ μ m
Preload class B G_B	1300 N
Static axial stiffness, preload class B	245 N/ μ m
Preload class C G_C	2600 N
Static axial stiffness, preload class C	344 N/ μ m
Preload class D G_D	5200 N
Static axial stiffness, preload class D	498 N/ μ m
Calculation factor f	1.16
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{2D}	1.09
Calculation factor f_{HC}	1.02
Calculation factor f_0	15.8
Mass bearing	3.48 kg