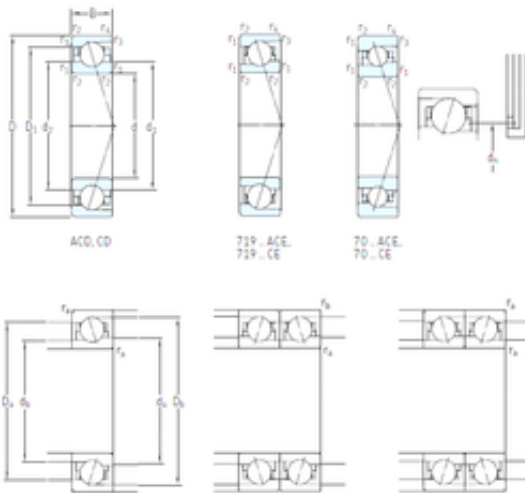




NTL BEARINGS LTD.

7012 CD/HCP4A SKF High Speed Angular Contact Ball Bearings

Bearing No. 7012 CD/HCP4A



7012 CD/HCP4A Bearing 2D drawings and 3D CAD models

Size	60x95x18 mm
Bore Diameter	60 mm
Outer Diameter	95 mm
Width	18 mm
d	60 mm
D	95 mm
B	18 mm
C	18 mm
d1	70,8 mm
d2	70,8 mm
r1 min.	1,1 mm
r2 min.	1,1 mm
r3 min.	0,6 mm
r4 min.	0,6 mm
D1	84,2 mm
D2	86,7 mm
da min.	66 mm
Da max.	89 mm
db min	66 mm
ra max.	1 mm
rb max.	0,6 mm
dh	73,1 mm
Db max	91,8 mm
Weight	0,34 Kg
Basic dynamic load rating (C)	40,3 kN



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Basic static load rating (C0)	34,5 kN
(Grease) Lubrication Speed	17 000 r/min
(Oil) Lubrication Speed	26 000 r/min
Fatigue load limit (Pu)	1,5
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0
Product Group	B04270
Enclosure	Open
Precision Class	ABEC 7 ISO P4
Material - Ball	Ceramic
Number of Bearings	1 (Single)
Contact Angle	15 Degree
Preload	None
Raceway Style	1 Rib Outer Ring
Cage Material	Phenolic
Rolling Element	Ball Bearing
Flush Ground	No
Inch - Metric	Metric
Other Features	Single Row Angular Contact High Capacity Basic Design
Long Description	60MM Bore; 95MM Outside Diameter; 18MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Ceramic Ball Material; 1 (Single) Bearing; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Ra
Category	Precision Ball Bearings
UNSPSC	31171531



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Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Ball Angular Contact
Manufacturer URL	http://www.skf.com
Bore	2.362 Inch 60 Millimeter
Outside Diameter	3.74 Inch 95 Millimeter
Width	0.709 Inch 18 Millimeter
d_1	70.8 mm
d_2	70.8 mm
D_1	84.2 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
a	19.4 mm
d_a min.	66 mm
d_b min.	66 mm
D_a max.	89 mm
D_b max.	91.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	73.1 mm
Basic dynamic load rating C	40.3 kN
Basic static load rating C_0	34.5 kN
Fatigue load limit P_u	1.5 kN
Attainable speed for grease lubrication	17000 r/min
Attainable speed for oil-air lubrication	26000 r/min
Ball diameter D_w	11.112 mm
Number of balls z	19
Reference grease quantity G_{ref}	5.4 cm ³
Preload class A G_A	150 N
Static axial stiffness, preload	77 N/ μ m



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class A	
Preload class B G_B	300 N
Static axial stiffness, preload class B	105 N/ μ m
Preload class C G_C	600 N
Static axial stiffness, preload class C	148 N/ μ m
Preload class D G_D	1200 N
Static axial stiffness, preload class D	214 N/ μ m
Calculation factor f	1.12
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	15.4
Mass bearing	0.34 kg