



NTN BEARING CORP.OF CANADA LTD.



75 mm x 115 mm x 20 mm SKF 7015 CD/P4A
angular contact ball bearings

Bearing No. 7015 CD/P4A

7015 CD/P4A Bearing 2D drawings and 3D CAD models

Size	115x75x20 mm
Bore Diameter	115 mm
Outer Diameter	75 mm
Width	20 mm
d	75 mm
D	115 mm
B	20 mm
d ₁	87.3 mm
d ₂	87.3 mm
D ₁	102.7 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	22.8 mm
d _a - min.	81 mm
d _b - min.	81 mm
D _a - max.	109 mm
D _b - max.	111 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	90 mm
Basic dynamic load rating - C	52.7 kN
Basic static load rating - C ₀	49 kN
Fatigue load limit - P _u	2.1 kN
Limiting speed for grease	11000 r/min



NTN BEARING CORP.OF CANADA LTD.

Lubrication	
Limiting speed for oil lubrication	18000 mm/min
Ball - D_w	12.7 mm
Ball - z	20
G_{ref}	8.4 cm3
Calculation factor - f_0	15.7
Preload class A - G_A	200 N
Preload class B - G_B	400 N
Preload class C - G_C	800 N
Preload class D - G_D	1600 N
Calculation factor - f	1.14
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
Preload class A	84 N/micron
Preload class B	115 N/micron
Preload class C	162 N/micron
Preload class D	235 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.66
EAN	7316570380071
Product Group	B04270
Enclosure	Open



NTN BEARING CORP.OF CANADA LTD.

Precision Class	ABEC 7 ISO P4
Material - Ball	Steel
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 Precision
Long Description	75MM Bore; 115MM Outside Diameter; 20MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearings; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Ra
Category	Precision Ball Bearings
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Angular Contact Ball
Manufacturer URL	http://www.skf.com
Manufacturer Item Number	7015 CD/P4A
Weight / LBS	1.442
Width	0.787 Inch 20 Millimeter
Bore	2.953 Inch 75 Millimeter
Outside Diameter	4.528 Inch 115 Millimeter
d ₁	87.3 mm
d ₂	87.3 mm
D ₁	102.7 mm



NTN BEARING CORP.OF CANADA LTD.

$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	81 mm
d_b min.	81 mm
D_a max.	109 mm
D_b max.	111 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	90 mm
Basic dynamic load rating C	52.7 kN
Basic static load rating C_0	49 kN
Fatigue load limit P_u	2.08 kN
Attainable speed for grease lubrication	11000 r/min
Attainable speed for oil-air lubrication	18000 r/min
Ball diameter D_w	12.7 mm
Number of balls z	20
Reference grease quantity G_{ref}	8.4 cm ³
Preload class A G_A	200 N
Static axial stiffness, preload class A	84 N/ μ m
Preload class B G_B	400 N
Static axial stiffness, preload class B	115 N/ μ m
Preload class C G_C	800 N
Static axial stiffness, preload class C	162 N/ μ m
Preload class D G_D	1600 N
Static axial stiffness, preload class D	235 N/ μ m
Calculation factor f	1.14
Calculation factor f_1	1



NTN BEARING CORP.OF CANADA LTD.

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
Calculation factor f_0	15.7
Mass bearing	0.63 kg