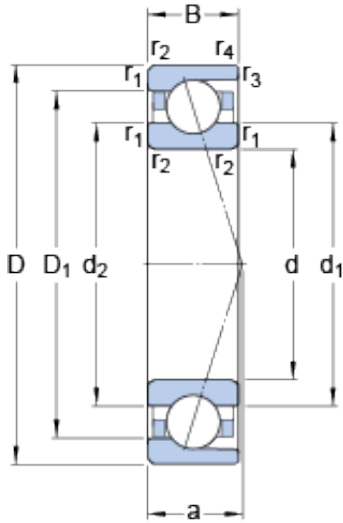




NTL BEARINGS LTD.

7015 ACD/HCP4A SKF High Speed Angular Contact Ball Bearings

Bearing No. 7015 ACD/HCP4A



7015 ACD/HCP4A 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	32.3 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	49.4 kN
Basic static load rating - C ₀	46.5 kN
Fatigue load limit - P _u	2 kN
Limiting speed for grease	13000 r/min



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Lubrication	
Limiting speed for oil lubrication	20000 mm/min
Ball - D_w	12.7 mm
Ball - z	20
G_{ref}	8.4 cm ³
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	310 N
Preload class B - G_B	620 N
Preload class C - G_C	1240 N
Preload class D - G_D	2480 N
Calculation factor - f	1.14
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2D}	1.08
Calculation factor - f_{HC}	1.02
Preload class A	222 N/micron
Preload class B	290 N/micron
Preload class C	386 N/micron
Preload class D	522 N/micron



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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	25 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	75MM Bore; 115MM Outside Diameter; 20MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Ceramic Ball Material; 1 (Single) Bearing; 25 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring R
Category	Precision Ball Bearings
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Ball Angular Contact
Manufacturer URL	http://www.skf.com



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Bore	2.953 Inch 75 Millimeter
Outside Diameter	4.528 Inch 115 Millimeter
Width	0.787 Inch 20 Millimeter
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
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	49.4 kN
Basic static load rating C_0	46.5 kN
Fatigue load limit P_u	1.96 kN
Attainable speed for grease lubrication	13000 r/min
Attainable speed for oil-air lubrication	20000 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	310 N
Static axial stiffness, preload class A	222 N/ μ m
Preload class B G_B	620 N
Static axial stiffness, preload class B	290 N/ μ m
Preload class C G_C	1240 N
Static axial stiffness, preload	386 N/ μ m



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class C	
Preload class D G_D	2480 N
Static axial stiffness, preload class D	522 N/ μ m
Calculation factor f	1.14
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{2D}	1.08
Calculation factor f_{HC}	1.02
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	0.53 kg