



Wuxi NSB Transmission Technology Co.,...



7000 ACD/HCP4A Bearing 2D drawings and 3D CAD models

10 mm x 26 mm x 8 mm SKF 7000 ACD/HCP4A angular contact ball bearings

Bearing No. 7000 ACD/HCP4A

Size	26x10x8 mm
Bore Diameter	26 mm
Outer Diameter	10 mm
Width	8 mm
d	10 mm
D	26 mm
B	8 mm
d ₁	15.1 mm
d ₂	15.1 mm
D ₁	20.9 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.2 mm
a	8.3 mm
d _a - min.	12 mm
d _b - min.	12 mm
D _a - max.	24 mm
D _b - max.	24.6 mm
r _a - max.	0.3 mm
r _b - max.	0.2 mm
d _n	16 mm
Basic dynamic load rating - C	4 kN
Basic static load rating - C ₀	1.6 kN
Fatigue load limit - P _u	0.067 kN
Limiting speed for grease	80000 r/min



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Lubrication	
Limiting speed for oil lubrication	120000 mm/min
Ball - D_w	4.762 mm
Ball - z	9
G_{ref}	0.24 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	25 N
Preload class B - G_B	50 N
Preload class C - G_C	100 N
Preload class D - G_D	200 N
Calculation factor - f	1.03
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	36 N/micron
Preload class B	46 N/micron
Preload class C	60 N/micron
Preload class D	79 N/micron



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Category	Miniature Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.021
Product Group	B04270
Enclosure	Open
Precision Class	ABEC 7 ISO P4
Flanges	No
Material - Ball	Ceramic
Race Material	Steel
Raceway Style	1 Rib Outer Ring
Number of Bearings	1 (Single)
Contact Angle	25 Degree
Preload	None
Cage Material	Phenolic
Rolling Element	Ball Bearing
Flush Ground	No
Inch - Metric	Metric
Other Features	Single Row Angular Contact High Precision Hybrid Corrosion Resistant Ball
Long Description	10MM Bore; 26MM Outside Diameter; 8MM Inner Race Width; 8MM Outer Race Width; Open Enclosure; ABEC 7 ISO P4 Precision; No Flange; Ceramic Ball Material; Steel Race Material; 1 (Single) Bearing
Category	Miniature Precision Ball Bearings
UNSPSC	31171531



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Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Angular Contact Ball
Manufacturer URL	http://www.skf.com
Manufacturer Item Number	7000 ACD/HCP4A
Weight / LBS	0.046
Bore	0.394 Inch 10 Millimeter
Flange Outside Diameter	0 Inch 0 Millimeter
Outer Race Width	0.315 Inch 8 Millimeter
Outside Diameter	1.024 Inch 26 Millimeter
Inner Race Width	0.315 Inch 8 Millimeter
d_1	15.1 mm
d_2	15.1 mm
D_1	20.9 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.2 mm
d_a min.	12 mm
d_b min.	12 mm
D_a max.	24 mm
D_b max.	24.6 mm
r_a max.	0.3 mm
r_b max.	0.2 mm
d_n	16 mm
Basic dynamic load rating C	3.97 kN
Basic static load rating C_0	1.6 kN
Fatigue load limit P_u	0.067 kN
Attainable speed for grease lubrication	80000 r/min
Attainable speed for oil-air lubrication	120000 r/min
Ball diameter D_w	4.762 mm
Number of balls z	9
Reference grease quantity	0.24 cm ³



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G_{ref}	
Preload class A G_A	25 N
Static axial stiffness, preload class A	36 N/ μ m
Preload class B G_B	50 N
Static axial stiffness, preload class B	46 N/ μ m
Preload class C G_C	100 N
Static axial stiffness, preload class C	60 N/ μ m
Preload class D G_D	200 N
Static axial stiffness, preload class D	79 N/ μ m
Calculation factor f	1.03
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	0.017 kg



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