



Bearing No. 7207 CD/HCP4A

D	72 mm
d	35 mm
B	17 mm
a	15.7 mm
Noun	Bearing
Bore	1.378 Inch 35 Millimeter
Width	0.669 Inch 17 Millimeter
UNSPSC	31171531
Preload	None
Category	Precision Ball Bearings
Ball - z	13
Inventory	0.0
Enclosure	Open
Size (mm)	72x35x17
Width (mm)	17
Flush Ground	No
Mass bearing	0.24 kg
d ₁	46.8 mm
d ₂	46.8 mm
d _n	49.7 mm
Inch - Metric	Metric
D ₁	60.2 mm
Cage Material	Phenolic
Raceway Style	1 Rib Outer Ring
d ₂	46.8 mm
Contact Angle	15 Degree
d ₁	46.8 mm
D ₁	60.2 mm

d_n	49.7 mm
Product Group	B04270
Other Features	Single Row Angular Contact High Capacity Basic Design
Keyword String	Ball Angular Contact
Bearing number	7207 CD/HCP4A
G_{ref}	3.903 cm ³
Rolling Element	Ball Bearing
Material - Ball	Ceramic
Preload class A	55 N/micron
Preload class B	75 N/micron
Preload class C	104 N/micron
Preload class D	151 N/micron
Precision Class	ABEC 7 ISO P4
Long Description	35MM Bore; 72MM Outside Diameter; 17MM 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
Manufacturer URL	http://www.skf.com
Outside Diameter	2.835 Inch 72 Millimeter
Number of balls z	13
Weight / Kilogram	0
Manufacturer Name	SKF
Number of Bearings	1 (Single)
d_a min.	42 mm
d_b min.	42 mm
D_a max.	65 mm
D_b max.	69.6 mm

r_a max.	1 mm
r_b max.	0.3 mm
Bore Diameter (mm)	72
Outer Diameter (mm)	35
$r_{3,4}$ min.	0.3 mm
$r_{1,2}$ min.	1.1 mm
d_b - min.	42 mm
Calculation factor f	1.05
D_a - max.	65 mm
D_b - max.	69.6 mm
r_a - max.	1 mm
d_a - min.	42 mm
Ball - D_w	11.112 mm
r_b - max.	0.3 mm
Minimum Buy Quantity	N/A
Calculation factor - f	1.05
$r_{3,4}$ - min.	0.3 mm
$r_{1,2}$ - min.	1.1 mm
Harmonized Tariff Code	8482.10.50.28
Basic dynamic load rating C	31.9 kN
Ball diameter D_w	11.112 mm
Basic dynamic load rating - C	31.9 kN
Preload class D G_D	960 N
Preload class C G_C	480 N
Preload class B G_B	240 N
Preload class A G_A	120 N
Preload class D - G_D	960 N
Preload class C - G_C	480 N
Preload class B - G_B	240 N
Preload class A - G_A	120 N

Calculation factor f_0	13.9
Calculation factor f_1	1
Fatigue load limit P_u	0.915 kN
Calculation factor - f	1
Calculation factor f_{HC}	1.01
Calculation factor f_{2D}	1.06
Calculation factor f_{2C}	1.03
Calculation factor f_{2B}	1.01
Calculation factor f_{2A}	1
Calculation factor - f_0	13.9
Limiting speed for oil lubrication	38000 mm/min
Fatigue load limit - P_u	0.915 kN
Calculation factor - f_{2D}	1.06
Calculation factor - f_{2A}	1
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2C}	1.03
Limiting speed for grease lubrication	26000 r/min
Basic static load rating C_0	21.6 kN
Static axial stiffness, preload class D	151 N/ μ m
Static axial stiffness, preload class B	75 N/ μ m
Static axial stiffness, preload class A	55 N/ μ m
Attainable speed for grease lubrication	26000 r/min
Static axial stiffness, preload class C	104 N/ μ m
Basic static load rating -	21.6 kN

C_0	
Attainable speed for oil-air lubrication	38000 r/min
Reference grease quantity G_{ref}	3.903 cm ³