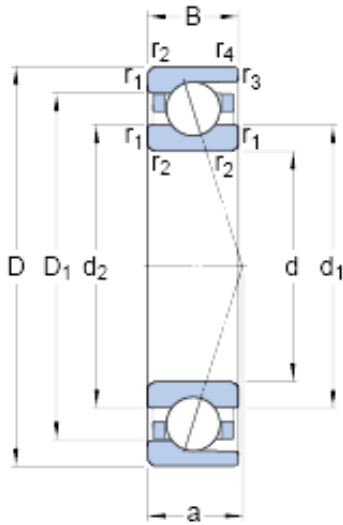




BEARING USA CORP.

105 mm x 190 mm x 36 mm SKF 7221 CD/P4A
angular contact ball bearings

Bearing No. 7221 CD/P4A



7221 CD/P4A Bearing 2D drawings and 3D CAD models

Size	190x105x36 mm
Bore Diameter	190 mm
Outer Diameter	105 mm
Width	36 mm
d	105 mm
D	190 mm
B	36 mm
d ₁	131.2 mm
d ₂	131.2 mm
D ₁	163.8 mm
r _{1,2} - min.	2.1 mm
r _{3,4} - min.	1.1 mm
a	37.9 mm
d _a - min.	117 mm
d _b - min.	117 mm
D _a - max.	178 mm
D _b - max.	183 mm
r _a - max.	2 mm
r _b - max.	1 mm
d _n	138.4 mm
Basic dynamic load rating - C	172 kN
Basic static load rating - C ₀	153 kN
Fatigue load limit - P _u	5.3 kN
Limiting speed for grease	7500 r/min



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Lubrication	
Limiting speed for oil lubrication	12000 mm/min
Ball - D_w	26.988 mm
Ball - z	15
G_{ref}	48.333 cm ³
Calculation factor - f_0	14.5
Preload class A - G_A	650 N
Preload class B - G_B	1300 N
Preload class C - G_C	2600 N
Preload class D - G_D	5200 N
Calculation factor - f	1.08
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2C}	1.03
Calculation factor - f_{2D}	1.05
Calculation factor - f_{HC}	1
Preload class A	129 N/micron
Preload class B	174 N/micron
Preload class C	243 N/micron
Preload class D	349 N/micron
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



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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 Super Precision High Capacity Basic Design
Long Description	105MM Bore; 190MM Outside Diameter; 36MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearing; 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	Ball Angular Contact
Manufacturer URL	http://www.skf.com
Outside Diameter	7.48 Inch 190 Millimeter
Bore	4.134 Inch 105 Millimeter
Width	1.417 Inch 36 Millimeter
d ₁	131.2 mm
d ₂	131.2 mm
D ₁	163.8 mm
r _{1,2} min.	2.1 mm
r _{3,4} min.	1.1 mm



BEARING USA CORP.

d_a min.	117 mm
d_b min.	117 mm
D_a max.	178 mm
D_b max.	183 mm
r_a max.	2 mm
r_b max.	1 mm
d_n	138.4 mm
Basic dynamic load rating C	172 kN
Basic static load rating C_0	153 kN
Fatigue load limit P_u	5.3 kN
Attainable speed for grease lubrication	7500 r/min
Attainable speed for oil-air lubrication	12000 r/min
Ball diameter D_w	26.988 mm
Number of balls z	15
Reference grease quantity G_{ref}	48.333 cm ³
Preload class A G_A	650 N
Static axial stiffness, preload class A	129 N/ μ m
Preload class B G_B	1300 N
Static axial stiffness, preload class B	174 N/ μ m
Preload class C G_C	2600 N
Static axial stiffness, preload class C	243 N/ μ m
Preload class D G_D	5200 N
Static axial stiffness, preload class D	349 N/ μ m
Calculation factor f	1.08
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.01



BEARING USA CORP.

Calculation factor f_{2C}	1.03
Calculation factor f_{2D}	1.05
Calculation factor f_{HC}	1
Calculation factor f_0	14.5
Mass bearing	3.87 kg