



UGE BEARING INDUSTRIAL CO., LTD.



95 mm x 170 mm x 32 mm SKF 7219 CD/P4A
Special design 60 ° contact angle Precision
Bearings

Bearing No. 7219 CD/P4A

7219 CD/P4A Bearing 2D drawings and 3D CAD models

Size	170x95x32 mm
Bore Diameter	170 mm
Outer Diameter	95 mm
Width	32 mm
d	95 mm
D	170 mm
B	32 mm
d ₁	118.1 mm
d ₂	118.1 mm
D ₁	146.9 mm
r _{1,2} - min.	2.1 mm
r _{3,4} - min.	1.1 mm
a	33.9 mm
d _a - min.	107 mm
d _b - min.	107 mm
D _a - max.	158 mm
D _b - max.	163 mm
r _a - max.	2 mm
r _b - max.	1 mm
d _n	124.4 mm
Basic dynamic load rating - C	138 kN
Basic static load rating - C ₀	120 kN
Fatigue load limit - P _u	4.4 kN



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Limiting speed for grease lubrication	8000 r/min
Limiting speed for oil lubrication	13000 mm/min
Ball - D_w	23.812 mm
Ball - z	15
G_{ref}	34.314 cm ³
Calculation factor - f_0	14.6
Preload class A - G_A	520 N
Preload class B - G_B	1040 N
Preload class C - G_C	2080 N
Preload class D - G_D	4160 N
Calculation factor - f	1.09
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	115 N/micron
Preload class B	156 N/micron
Preload class C	217 N/micron
Preload class D	313 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	95MM Bore; 170MM Outside Diameter; 32MM 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 Rac
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
Bore	3.74 Inch 95 Millimeter
Outside Diameter	6.693 Inch 170 Millimeter
Width	1.26 Inch 32 Millimeter
d ₁	118.1 mm
d ₂	118.1 mm
D ₁	146.9 mm
r _{1,2} min.	2.1 mm
r _{3,4} min.	1.1 mm



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d_a min.	107 mm
d_b min.	107 mm
D_a max.	158 mm
D_b max.	163 mm
r_a max.	2 mm
r_b max.	1 mm
d_n	124.4 mm
Basic dynamic load rating C	138 kN
Basic static load rating C_0	120 kN
Fatigue load limit P_u	4.4 kN
Attainable speed for grease lubrication	8000 r/min
Attainable speed for oil-air lubrication	13000 r/min
Ball diameter D_w	23.812 mm
Number of balls z	15
Reference grease quantity G_{ref}	34.314 cm ³
Preload class A G_A	520 N
Static axial stiffness, preload class A	115 N/ μ m
Preload class B G_B	1040 N
Static axial stiffness, preload class B	156 N/ μ m
Preload class C G_C	2080 N
Static axial stiffness, preload class C	217 N/ μ m
Preload class D G_D	4160 N
Static axial stiffness, preload class D	313 N/ μ m
Calculation factor f	1.09
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.01



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Calculation factor f_{2C}	1.03
Calculation factor f_{2D}	1.05
Calculation factor f_{HC}	1
Calculation factor f_0	14.6
Mass bearing	2.7 kg