



New energy Bearing Manufacturing Co.,...



7203 CD/P4A Bearing 2D drawings and 3D CAD models

17 mm x 40 mm x 12 mm SKF 7203 CD/P4A
angular contact ball bearings

Bearing No. 7203 CD/P4A

Size	40x17x12 mm
Bore Diameter	40 mm
Outer Diameter	17 mm
Width	12 mm
d	17 mm
D	40 mm
B	12 mm
d ₁	24.1 mm
d ₂	24.1 mm
D ₁	32.8 mm
r _{1,2} - min.	0.6 mm
r _{3,4} - min.	0.3 mm
a	9.9 mm
d _a - min.	21.2 mm
d _b - min.	21.2 mm
D _a - max.	35.8 mm
D _b - max.	37.6 mm
r _a - max.	0.6 mm
r _b - max.	0.3 mm
d _n	25.9 mm
Basic dynamic load rating - C	9.2 kN
Basic static load rating - C ₀	4.2 kN
Fatigue load limit - P _u	0.176 kN
Limiting speed for grease	43000 r/min



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Lubrication	
Limiting speed for oil lubrication	63000 mm/min
Ball - D_w	7.144 mm
Ball - z	10
G_{ref}	1.005 cm ³
Calculation factor - f_0	8.5
Preload class A - G_A	35 N
Preload class B - G_B	70 N
Preload class C - G_C	140 N
Preload class D - G_D	280 N
Calculation factor - f	1.03
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	21 N/micron
Preload class B	28 N/micron
Preload class C	38 N/micron
Preload class D	53 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0
EAN	7316570697780
Product Group	B04270
Enclosure	Open



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Precision Class	ABEC 7 ISO P4
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	17MM Bore; 40MM Outside Diameter; 12MM 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 Race
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	0.669 Inch 17 Millimeter
Outside Diameter	1.575 Inch 40 Millimeter
Width	0.472 Inch 12 Millimeter
d ₁	24.1 mm
d ₂	24.1 mm
D ₁	32.8 mm
r _{1,2} min.	0.6 mm



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$r_{3,4}$ min.	0.3 mm
d_a min.	21.2 mm
d_b min.	21.2 mm
D_a max.	35.8 mm
D_b max.	37.6 mm
r_a max.	0.6 mm
r_b max.	0.3 mm
d_n	25.9 mm
Basic dynamic load rating C	9.23 kN
Basic static load rating C_0	4.15 kN
Fatigue load limit P_u	0.176 kN
Attainable speed for grease lubrication	43000 r/min
Attainable speed for oil-air lubrication	63000 r/min
Ball diameter D_w	7.144 mm
Number of balls z	10
Reference grease quantity G_{ref}	1.005 cm ³
Preload class A G_A	35 N
Static axial stiffness, preload class A	21 N/ μ m
Preload class B G_B	70 N
Static axial stiffness, preload class B	28 N/ μ m
Preload class C G_C	140 N
Static axial stiffness, preload class C	38 N/ μ m
Preload class D G_D	280 N
Static axial stiffness, preload class D	53 N/ μ m
Calculation factor f	1.03
Calculation factor f_1	1
Calculation factor f_{2A}	1



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Calculation factor f_{2B}	1.01
Calculation factor f_{2C}	1.03
Calculation factor f_{2D}	1.05
Calculation factor f_{HC}	1
Calculation factor f_0	8.5
Mass bearing	0.063 kg