



San Driveshaft Co., Ltd.



7005 CD/P4A Bearing 2D drawings and 3D CAD models

25 mm x 47 mm x 12 mm SKF 7005 CD/P4A Pressed Steel Cages Single-Row Angular Contact Ball Bearings

Bearing No. 7005 CD/P4A

Size	47x25x12 mm
Bore Diameter	47 mm
Outer Diameter	25 mm
Width	12 mm
d	25 mm
D	47 mm
B	12 mm
d ₁	32.1 mm
d ₂	32.1 mm
D ₁	39.9 mm
r _{1,2} - min.	0.6 mm
r _{3,4} - min.	0.3 mm
a	10.9 mm
d _a - min.	28.2 mm
d _b - min.	28.2 mm
D _a - max.	43.8 mm
D _b - max.	45 mm
r _a - max.	0.6 mm
r _b - max.	0.3 mm
d _n	33.4 mm
Basic dynamic load rating - C	9.6 kN
Basic static load rating - C ₀	5.2 kN
Fatigue load limit - P _u	0.22 kN



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Limiting speed for grease lubrication	36000 r/min
Limiting speed for oil lubrication	56000 mm/min
Ball - D_w	6.35 mm
Ball - z	14
G_{ref}	1.02 cm ³
Calculation factor - f_0	9.6
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	1.05
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2D}	1.09
Calculation factor - f_{HC}	1
Preload class A	25 N/micron
Preload class B	33 N/micron
Preload class C	46 N/micron
Preload class D	64 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.083
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 High Precision
Long Description	25MM Bore; 47MM Outside Diameter; 12MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearings; 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	Angular Contact Ball
Manufacturer URL	http://www.skf.com
Manufacturer Item Number	7005 CD/P4A
Weight / LBS	0.181
Width	0.472 Inch 12 Millimeter
Bore	0.984 Inch 25 Millimeter
Outside Diameter	1.85 Inch 47 Millimeter
d ₁	32.1 mm
d ₂	32.1 mm
D ₁	39.9 mm
r _{1,2} min.	0.6 mm



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$r_{3,4}$ min.	0.3 mm
d_a min.	28.2 mm
d_b min.	28.2 mm
D_a max.	43.8 mm
D_b max.	45 mm
r_a max.	0.6 mm
r_b max.	0.3 mm
d_n	33.4 mm
Basic dynamic load rating C	9.56 kN
Basic static load rating C_0	5.2 kN
Fatigue load limit P_u	0.22 kN
Attainable speed for grease lubrication	36000 r/min
Attainable speed for oil-air lubrication	56000 r/min
Ball diameter D_w	6.35 mm
Number of balls z	14
Reference grease quantity G_{ref}	1.02 cm ³
Preload class A G_A	35 N
Static axial stiffness, preload class A	25 N/ μ m
Preload class B G_B	70 N
Static axial stiffness, preload class B	33 N/ μ m
Preload class C G_C	140 N
Static axial stiffness, preload class C	46 N/ μ m
Preload class D G_D	280 N
Static axial stiffness, preload class D	64 N/ μ m
Calculation factor f	1.05
Calculation factor f_1	1
Calculation factor f_{2A}	1



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Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{2D}	1.09
Calculation factor f_{HC}	1
Calculation factor f_0	9.6
Mass bearing	0.079 kg