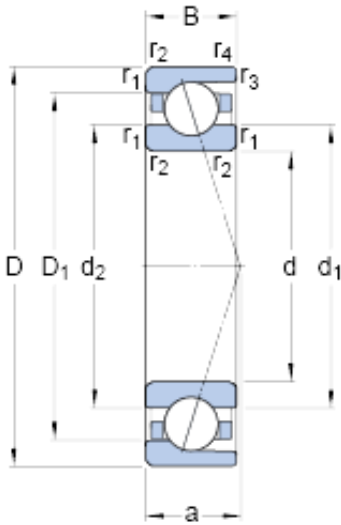




# NTN Bearing Rolamentos do Brasil Ltda.



71903 CD/P4A Bearing 2D drawings and 3D CAD models

## 17 mm x 30 mm x 7 mm skf 71903 CD/P4A Super-precision Angular contact ball bearings

Bearing No. 71903 CD/P4A

Size	30x17x7 mm
Bore Diameter	30 mm
Outer Diameter	17 mm
Width	7 mm
d	17 mm
D	30 mm
B	7 mm
d <sub>1</sub>	20.9 mm
d <sub>2</sub>	20.9 mm
D <sub>1</sub>	25.7 mm
r <sub>1,2</sub> - min.	0.3 mm
r <sub>3,4</sub> - min.	0.2 mm
a	6.7 mm
d <sub>a</sub> - min.	19 mm
d <sub>b</sub> - min.	19 mm
D <sub>a</sub> - max.	28 mm
D <sub>b</sub> - max.	28.6 mm
r <sub>a</sub> - max.	0.3 mm
r <sub>b</sub> - max.	0.2 mm
d <sub>n</sub>	22.1 mm
Basic dynamic load rating - C	4.2 kN
Basic static load rating - C <sub>0</sub>	2.1 kN
Fatigue load limit - P <sub>u</sub>	0.088 kN
Limiting speed for grease	50000 r/min



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Lubrication	
Limiting speed for oil lubrication	75000 mm/min
Ball - $D_w$	3.969 mm
Ball - z	14
$G_{ref}$	0.24 cm3
Calculation factor - $f_0$	9.8
Preload class A - $G_A$	15 N
Preload class B - $G_B$	30 N
Preload class C - $G_C$	60 N
Preload class D - $G_D$	120 N
Calculation factor - f	1.05
Calculation factor - f	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.04
Calculation factor - $f_{2C}$	1.09
Calculation factor - $f_{2D}$	1.15
Calculation factor - $f_{HC}$	1
Preload class A	16 N/micron
Preload class B	22 N/micron
Preload class C	30 N/micron
Preload class D	43 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.024
EAN	7316570297638
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   High Precision
Long Description	17MM Bore; 30MM Outside Diameter; 7MM 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 Race
Category	Precision Ball Bearings
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Angular Contact Ball
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Manufacturer Item Number	71903 CD/P4A
Weight / LBS	0.053
Bore	0.669 Inch   17 Millimeter
Width	0.276 Inch   7 Millimeter
Outside Diameter	1.181 Inch   30 Millimeter
d <sub>1</sub>	20.9 mm
d <sub>2</sub>	20.9 mm
D <sub>1</sub>	25.7 mm



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$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.2 mm
$d_a$ min.	19 mm
$d_b$ min.	19 mm
$D_a$ max.	28 mm
$D_b$ max.	28.6 mm
$r_a$ max.	0.3 mm
$r_b$ max.	0.2 mm
$d_n$	22.1 mm
Basic dynamic load rating C	4.16 kN
Basic static load rating $C_0$	2.08 kN
Fatigue load limit $P_u$	0.088 kN
Attainable speed for grease lubrication	50000 r/min
Attainable speed for oil-air lubrication	75000 r/min
Ball diameter $D_w$	3.969 mm
Number of balls z	14
Reference grease quantity $G_{ref}$	0.24 cm <sup>3</sup>
Preload class A $G_A$	15 N
Static axial stiffness, preload class A	16 N/ $\mu$ m
Preload class B $G_B$	30 N
Static axial stiffness, preload class B	22 N/ $\mu$ m
Preload class C $G_C$	60 N
Static axial stiffness, preload class C	30 N/ $\mu$ m
Preload class D $G_D$	120 N
Static axial stiffness, preload class D	43 N/ $\mu$ m
Calculation factor f	1.05
Calculation factor $f_1$	1



## NTN Bearing Rolamentos do Brasil Ltda.

Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.04
Calculation factor $f_{2C}$	1.09
Calculation factor $f_{2D}$	1.15
Calculation factor $f_{HC}$	1
Calculation factor $f_0$	9.8
Mass bearing	0.017 kg