



Bearing Manufacturing of America



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

17 mm x 30 mm x 7 mm 17 mm x 30 mm x 7 mm SKF 71903 ACD/P4A angular contact ball bearings

Bearing No. 71903 ACD/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 ₁	20.9 mm
d ₂	20.9 mm
D ₁	25.7 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.2 mm
a	9 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 kN
Basic static load rating - C ₀	2 kN
Fatigue load limit - P _u	0.085 kN



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Limiting speed for grease lubrication	45000 r/min
Limiting speed for oil lubrication	67000 mm/min
Ball - D_w	3.969 mm
Ball - z	14
G_{ref}	0.24 cm ³
Calculation factor - e	0.68
Calculation factor - Y_2	0.87
Calculation factor - Y_0	0.38
Calculation factor - X_2	0.41
Calculation factor - Y_1	0.92
Calculation factor - Y_2	1.41
Calculation factor - Y_0	0.76
Calculation factor - X_2	0.67
Preload class A - G_A	25 N
Preload class B - G_B	50 N
Preload class C - G_C	100 N
Preload class D - G_D	200 N
Calculation factor - f	1.05
Calculation factor - f_1	0.98
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.04
Calculation factor - f_{2C}	1.08
Calculation factor - f_{2D}	1.14
Calculation factor - f_{HC}	1
Preload class A	42 N/micron
Preload class B	54 N/micron
Preload class C	70 N/micron
Preload class D	93 N/micron



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Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.024
EAN	7316570128598
Product Group	B04270
Enclosure	Open
Precision Class	ABEC 7 ISO P4
Material - Ball	Steel
Number of Bearings	1 (Single)
Contact Angle	25 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; 25 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	http://www.skf.com



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Manufacturer Item Number	71903 ACD/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_1	20.9 mm
d_2	20.9 mm
D_1	25.7 mm
$r_{1,2}$ 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	3.97 kN
Basic static load rating C_0	2 kN
Fatigue load limit P_u	0.085 kN
Attainable speed for grease lubrication	45000 r/min
Attainable speed for oil-air lubrication	67000 r/min
Ball diameter D_w	3.969 mm
Number of balls z	14
Reference grease quantity G_{ref}	0.24 cm ³
Preload class A G_A	25 N
Static axial stiffness, preload class A	42 N/ μ m
Preload class B G_B	50 N
Static axial stiffness, preload class B	54 N/ μ m



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Preload class C G_C	100 N
Static axial stiffness, preload class C	70 N/ μ m
Preload class D G_D	200 N
Static axial stiffness, preload class D	93 N/ μ m
Calculation factor f	1.05
Calculation factor f_1	0.98
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.04
Calculation factor f_{2C}	1.08
Calculation factor f_{2D}	1.14
Calculation factor f_{HC}	1
Calculation factor e	0.68
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (single, tandem) Y_0	0.38
Calculation factor (single, tandem) X_2	0.41
Calculation factor (back-to-back, face-to-face) Y_1	0.92
Calculation factor (back-to-back, face-to-face) Y_2	1.41
Calculation factor (back-to-back, face-to-face) Y_0	0.76
Calculation factor (back-to-back, face-to-face) X_2	0.67
Mass bearing	0.017 kg