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71904 CD/P4A Bearing 2D drawings and 3D CAD models

20 mm x 37 mm x 9 mm SKF 71904 CD/P4A angular contact ball bearings

Bearing No. 71904 CD/P4A

Size	37x20x9 mm
Bore Diameter	37 mm
Outer Diameter	20 mm
Width	9 mm
d	20 mm
D	37 mm
B	9 mm
d ₁	25.6 mm
d ₂	25.6 mm
D ₁	31.4 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.2 mm
a	8.4 mm
d _a - min.	22 mm
d _b - min.	22 mm
D _a - max.	35 mm
D _b - max.	35.6 mm
r _a - max.	0.3 mm
r _b - max.	0.2 mm
d _n	26.8 mm
Basic dynamic load rating - C	6 kN
Basic static load rating - C ₀	3.2 kN
Fatigue load limit - P _u	0.137 kN
Limiting speed for grease	43000 r/min



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Lubrication	
Limiting speed for oil lubrication	63000 mm/min
Ball - D_w	4.762 mm
Ball - z	15
G_{ref}	0.45 cm ³
Calculation factor - f_0	9.8
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
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	22 N/micron
Preload class B	29 N/micron
Preload class C	40 N/micron
Preload class D	56 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.043
EAN	7316571171890
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	20MM Bore; 37MM Outside Diameter; 9MM 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	http://www.skf.com
Manufacturer Item Number	71904 CD/P4A
Weight / LBS	0.088
Width	0.354 Inch 9 Millimeter
Outside Diameter	1.457 Inch 37 Millimeter
Bore	0.787 Inch 20 Millimeter
d ₁	25.6 mm
d ₂	25.6 mm
D ₁	31.4 mm



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$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.2 mm
d_a min.	22 mm
d_b min.	22 mm
D_a max.	35 mm
D_b max.	35.6 mm
r_a max.	0.3 mm
r_b max.	0.2 mm
d_n	26.8 mm
Basic dynamic load rating C	6.05 kN
Basic static load rating C_0	3.2 kN
Fatigue load limit P_u	0.137 kN
Attainable speed for grease lubrication	43000 r/min
Attainable speed for oil-air lubrication	63000 r/min
Ball diameter D_w	4.762 mm
Number of balls z	15
Reference grease quantity G_{ref}	0.45 cm ³
Preload class A G_A	25 N
Static axial stiffness, preload class A	22 N/ μ m
Preload class B G_B	50 N
Static axial stiffness, preload class B	29 N/ μ m
Preload class C G_C	100 N
Static axial stiffness, preload class C	40 N/ μ m
Preload class D G_D	200 N
Static axial stiffness, preload class D	56 N/ μ m
Calculation factor f	1.05
Calculation factor f_1	1



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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	0.035 kg