



Off-the-shelf SKF shaft Co., Ltd



71936 CD/P4A Bearing 2D drawings and 3D CAD models

180 mm x 250 mm x 33 mm SKF 71936 CD/P4A Special EP (Extra Pure) steel Precision Bearings

Bearing No. 71936 CD/P4A

Size	250x180x33 mm
Bore Diameter	250 mm
Outer Diameter	180 mm
Width	33 mm
d	180 mm
D	250 mm
B	33 mm
d ₁	201.6 mm
d ₂	201.6 mm
D ₁	228.4 mm
r _{1,2} - min.	2 mm
r _{3,4} - min.	1 mm
a	45.4 mm
d _a - min.	189 mm
d _b - min.	189 mm
D _a - max.	241 mm
D _b - max.	245 mm
r _a - max.	2 mm
r _b - max.	1 mm
d _n	207.4 mm
Basic dynamic load rating - C	168 kN
Basic static load rating - C ₀	212 kN
Fatigue load limit - P _u	6.1 kN



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Limiting speed for grease lubrication	5300 r/min
Limiting speed for oil lubrication	8000 mm/min
Ball - D_w	22.225 mm
Ball - z	27
G_{ref}	54 cm ³
Calculation factor - f_0	16.3
Preload class A - G_A	630 N
Preload class B - G_B	1260 N
Preload class C - G_C	2520 N
Preload class D - G_D	5040 N
Calculation factor - f	1.25
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	183 N/micron
Preload class B	250 N/micron
Preload class C	353 N/micron
Preload class D	516 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	4.484
EAN	7316570316384
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	180MM Bore; 250MM Outside Diameter; 33MM 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 R
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	71936 CD/P4A
Weight / LBS	9.877
Outside Diameter	9.843 Inch 250 Millimeter
Bore	7.087 Inch 180 Millimeter
Width	1.299 Inch 33 Millimeter
d ₁	201.6 mm
d ₂	201.6 mm
D ₁	228.4 mm



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$r_{1,2}$ min.	2 mm
$r_{3,4}$ min.	1 mm
d_a min.	189 mm
d_b min.	189 mm
D_a max.	241 mm
D_b max.	245 mm
r_a max.	2 mm
r_b max.	1 mm
d_n	207.4 mm
Basic dynamic load rating C	168 kN
Basic static load rating C_0	212 kN
Fatigue load limit P_u	6.1 kN
Attainable speed for grease lubrication	5300 r/min
Attainable speed for oil-air lubrication	8000 r/min
Ball diameter D_w	22.225 mm
Number of balls z	27
Reference grease quantity G_{ref}	54 cm ³
Preload class A G_A	630 N
Static axial stiffness, preload class A	183 N/ μ m
Preload class B G_B	1260 N
Static axial stiffness, preload class B	250 N/ μ m
Preload class C G_C	2520 N
Static axial stiffness, preload class C	353 N/ μ m
Preload class D G_D	5040 N
Static axial stiffness, preload class D	516 N/ μ m
Calculation factor f	1.25
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	16.3
Mass bearing	4.2 kg