



BEARING PRECISION AXLE CORP.



71912 CD/P4A SKF High Speed Angular Contact Ball Bearings

Bearing No. 71912 CD/P4A

71912 CD/P4A Bearing 2D drawings and 3D CAD models

Size	85x60x13 mm
Bore Diameter	85 mm
Outer Diameter	60 mm
Width	13 mm
d	60 mm
D	85 mm
B	13 mm
d ₁	67.7 mm
d ₂	67.7 mm
D ₁	77.3 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.3 mm
a	16.3 mm
d _a - min.	64.6 mm
d _b - min.	64.6 mm
D _a - max.	80.4 mm
D _b - max.	83 mm
r _a - max.	1 mm
r _b - max.	0.3 mm
d _n	69.7 mm
Basic dynamic load rating - C	19.9 kN
Basic static load rating - C ₀	15.3 kN
Fatigue load limit - P _u	0.655 kN
Limiting speed for grease	15000 r/min



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Lubrication	
Limiting speed for oil lubrication	24000 mm/min
Ball - D_w	7.938 mm
Ball - z	24
G_{ref}	2.7 cm3
Calculation factor - f_0	10.5
Preload class A - G_A	70 N
Preload class B - G_B	140 N
Preload class C - G_C	280 N
Preload class D - G_D	560 N
Calculation factor - f	1.17
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	50 N/micron
Preload class B	67 N/micron
Preload class C	92 N/micron
Preload class D	130 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.21
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	60MM Bore; 85MM Outside Diameter; 13MM 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	71912 CD/P4A
Weight / LBS	0.472
Bore	2.362 Inch 60 Millimeter
Outside Diameter	3.346 Inch 85 Millimeter
Width	0.512 Inch 13 Millimeter
bore diameter:	60 mm
radial dynamic load capacity:	19.9 kN
outside diameter:	85 mm



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radial static load capacity:	15.3 kN
overall width:	13 mm
outer ring width:	13 mm
contact angle:	15 °
maximum rpm:	24000 RPM
row type & fill slot:	Single-Row Non-Fill Slot
finish/coating:	Uncoated
internal clearance:	C0
precision rating:	ABEC 7 (ISO Class 4)
closure type:	Open
fillet radius:	1 mm
bearing material:	Steel
series:	71
d_1	67.7 mm
d_2	67.7 mm
D_1	77.3 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	64.6 mm
d_b min.	64.6 mm
D_a max.	80.4 mm
D_b max.	83 mm
r_a max.	1 mm
r_b max.	0.3 mm
d_n	69.7 mm
Basic dynamic load rating C	19.9 kN
Basic static load rating C_0	15.3 kN
Fatigue load limit P_u	0.655 kN
Attainable speed for grease lubrication	15000 r/min
Attainable speed for oil-air lubrication	24000 r/min
Ball diameter D_w	7.938 mm



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Number of balls z	24
Reference grease quantity G_{ref}	2.7 cm ³
Preload class A G_A	70 N
Static axial stiffness, preload class A	50 N/μm
Preload class B G_B	140 N
Static axial stiffness, preload class B	67 N/μm
Preload class C G_C	280 N
Static axial stiffness, preload class C	92 N/μm
Preload class D G_D	560 N
Static axial stiffness, preload class D	130 N/μm
Calculation factor f	1.17
Calculation factor f_1	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
Calculation factor f_0	10.5
Mass bearing	0.19 kg