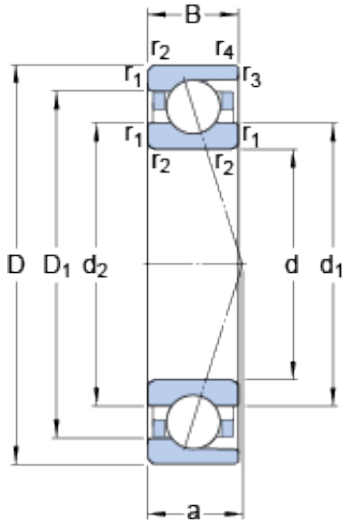




BEARING PRECISION AXLE CORP.



71910 CD/P4A Bearing 2D drawings and 3D CAD models

71910 CD/P4A SKF High Speed Angular Contact Ball Bearings

Bearing No. 71910 CD/P4A

Size	72x50x12 mm
Bore Diameter	72 mm
Outer Diameter	50 mm
Width	12 mm
d	50 mm
D	72 mm
B	12 mm
d ₁	57.1 mm
d ₂	57.1 mm
D ₁	64.9 mm
r _{1,2} - min.	0.6 mm
r _{3,4} - min.	0.3 mm
a	14.2 mm
d _a - min.	53.2 mm
d _b - min.	53.2 mm
D _a - max.	68.8 mm
D _b - max.	70.6 mm
r _a - max.	0.6 mm
r _b - max.	0.3 mm
d _n	58.7 mm
Basic dynamic load rating - C	13.5 kN
Basic static load rating - C ₀	10.4 kN
Fatigue load limit - P _u	0.44 kN
Limiting speed for grease	17000 r/min



BEARING PRECISION AXLE CORP.

Lubrication	
Limiting speed for oil lubrication	28000 mm/min
Ball - D_w	6.35 mm
Ball - z	25
G_{ref}	1.74 cm3
Calculation factor - f_0	10.7
Preload class A - G_A	50 N
Preload class B - G_B	100 N
Preload class C - G_C	200 N
Preload class D - G_D	400 N
Calculation factor - f	1.13
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	43 N/micron
Preload class B	57 N/micron
Preload class C	78 N/micron
Preload class D	110 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.133
Product Group	B04270
Enclosure	Open
Precision Class	ABEC 7 ISO P4



BEARING PRECISION AXLE CORP.

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 Capacity Basic Design
Long Description	50MM Bore; 72MM Outside Diameter; 12MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearing; 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	Ball Angular Contact
Manufacturer URL	http://www.skf.com
Width	0.472 Inch 12 Millimeter
Outside Diameter	2.835 Inch 72 Millimeter
Bore	1.969 Inch 50 Millimeter
d ₁	57.1 mm
d ₂	57.1 mm
D ₁	64.9 mm
r _{1,2} min.	0.6 mm
r _{3,4} min.	0.3 mm



BEARING PRECISION AXLE CORP.

d_a min.	53.2 mm
d_b min.	53.2 mm
D_a max.	68.8 mm
D_b max.	70.6 mm
r_a max.	0.6 mm
r_b max.	0.3 mm
d_n	58.7 mm
Basic dynamic load rating C	13.5 kN
Basic static load rating C_0	10.4 kN
Fatigue load limit P_u	0.44 kN
Attainable speed for grease lubrication	17000 r/min
Attainable speed for oil-air lubrication	28000 r/min
Ball diameter D_w	6.35 mm
Number of balls z	25
Reference grease quantity G_{ref}	1.74 cm ³
Preload class A G_A	50 N
Static axial stiffness, preload class A	43 N/ μ m
Preload class B G_B	100 N
Static axial stiffness, preload class B	57 N/ μ m
Preload class C G_C	200 N
Static axial stiffness, preload class C	78 N/ μ m
Preload class D G_D	400 N
Static axial stiffness, preload class D	110 N/ μ m
Calculation factor f	1.13
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.04



BEARING PRECISION AXLE CORP.

Calculation factor f_{2C}	1.09
Calculation factor f_{2D}	1.15
Calculation factor f_{HC}	1
Calculation factor f_0	10.7
Mass bearing	0.13 kg