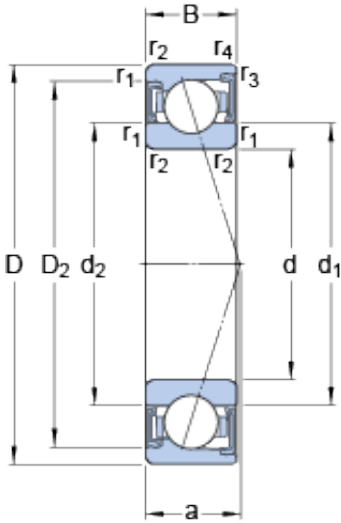




NTN Bearing Driveshaft USA CORP.



S71920 ACD/P4A Bearing 2D drawings and 3D CAD models

100 mm x 140 mm x 20 mm SKF S71920
ACD/P4A Angular contact ball bearings

Bearing No. S71920 ACD/P4A

Size	140x100x20 mm
Bore Diameter	140 mm
Outer Diameter	100 mm
Width	20 mm
d	100 mm
D	140 mm
B	20 mm
d ₁	112.3 mm
d ₂	112.3 mm
D ₂	130.7 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	38.1 mm
d _a - min.	106 mm
d _a - max.	111.7 mm
d _b - min.	106 mm
d _b - max.	111.7 mm
D _a - max.	134 mm
D _b - max.	136 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
Basic dynamic load rating - C	57.2 kN
Basic static load rating - C ₀	63 kN
Fatigue load limit - P _u	2.4 kN



NTN Bearing Driveshaft USA CORP.

Limiting speed for grease lubrication	8000 r/min
Ball - D_w	12.7 mm
Ball - z	26
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	360 N
Preload class B - G_B	720 N
Preload class C - G_C	1440 N
Preload class D - G_D	2880 N
Calculation factor - f	1.23
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	255 N/micron
Preload class B	336 N/micron
Preload class C	449 N/micron
Preload class D	613 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF



NTN Bearing Driveshaft USA CORP.

Minimum Buy Quantity	N/A
Weight / Kilogram	0
Product Group	B04270
Enclosure	2 Seals
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
Enclosure Type	Non Contact Seal
Flush Ground	No
Inch - Metric	Metric
Other Features	Single Row Angular Contact High Capacity Basic Design Corrosion Resistant Ball
Long Description	100MM Bore; 140MM Outside Diameter; 20MM Width; 2 Seals Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearing; 25 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring
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
Outside Diameter	5.512 Inch 140 Millimeter



NTN Bearing Driveshaft USA CORP.

Width	0.787 Inch 20 Millimeter
Bore	3.937 Inch 100 Millimeter
d_1	112.3 mm
d_2	112.3 mm
D_2	130.7 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	106 mm
d_a max.	111.7 mm
d_b min.	106 mm
d_b max.	111.7 mm
D_a max.	134 mm
D_b max.	136 mm
r_a max.	1 mm
r_b max.	0.6 mm
Basic dynamic load rating C	57.2 kN
Basic static load rating C_0	63 kN
Fatigue load limit P_u	2.4 kN
Attainable speed for grease lubrication	8000 r/min
Ball diameter D_w	12.7 mm
Number of balls z	26
Preload class A G_A	360 N
Static axial stiffness, preload class A	255 N/ μ m
Preload class B G_B	720 N
Static axial stiffness, preload class B	336 N/ μ m
Preload class C G_C	1440 N
Static axial stiffness, preload class C	449 N/ μ m
Preload class D G_D	2880 N
Static axial stiffness, preload class D	613 N/ μ m



NTN Bearing Driveshaft USA CORP.

Calculation factor f	1.23
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	0.81 kg