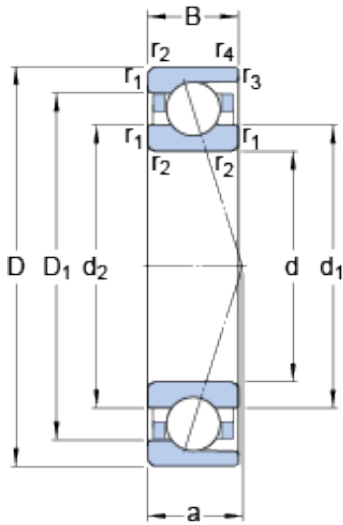




NTA PRECISION AXLE CORP.



35 mm x 55 mm x 10 mm SKF 71907 ACD/P4A angular contact ball bearings

Bearing No. 71907 ACD/P4A

71907 ACD/P4A Bearing 2D drawings and 3D CAD models

Size	55x35x10 mm
Bore Diameter	35 mm
Outer Diameter	55 mm
Width	10 mm
d	35 mm
D	55 mm
B	10 mm
d ₁	41.6 mm
d ₂	41.6 mm
D ₁	48.4 mm
r _{1,2} - min.	0.6 mm
r _{3,4} - min.	0.3 mm
a	15.6 mm
d _a - min.	38.2 mm
d _b - min.	38.2 mm
D _a - max.	51.8 mm
D _b - max.	53.6 mm
r _a - max.	0.6 mm
r _b - max.	0.3 mm
d _n	43 mm
Basic dynamic load rating - C	9.2 kN
Basic static load rating - C ₀	6.2 kN
Fatigue load limit - P _u	0.26 kN
Limiting speed for grease	22000 r/min



NTA PRECISION AXLE CORP.

Lubrication	
Limiting speed for oil lubrication	36000 mm/min
Ball - D_w	5.556 mm
Ball - z	21
G_{ref}	0.93 cm ³
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	60 N
Preload class B - G_B	120 N
Preload class C - G_C	240 N
Preload class D - G_D	480 N
Calculation factor - f	1.1
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	81 N/micron
Preload class B	105 N/micron
Preload class C	137 N/micron
Preload class D	183 N/micron



NTA PRECISION AXLE CORP.

Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.089
Product Group	B04270
Enclosure	Open
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
Flush Ground	No
Inch - Metric	Metric
Other Features	Single Row Angular Contact High Precision
Long Description	35MM Bore; 55MM Outside Diameter; 10MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearings; 25 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	71907 ACD/P4A



NTA PRECISION AXLE CORP.

Weight / LBS	0.19
Width	0.394 Inch 10 Millimeter
Outside Diameter	2.165 Inch 55 Millimeter
Bore	1.378 Inch 35 Millimeter
d_1	41.6 mm
d_2	41.6 mm
D_1	48.4 mm
$r_{1,2}$ min.	0.6 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	38.2 mm
d_b min.	38.2 mm
D_a max.	51.8 mm
D_b max.	53.6 mm
r_a max.	0.6 mm
r_b max.	0.3 mm
d_n	43 mm
Basic dynamic load rating C	9.23 kN
Basic static load rating C_0	6.2 kN
Fatigue load limit P_u	0.26 kN
Attainable speed for grease lubrication	22000 r/min
Attainable speed for oil-air lubrication	36000 r/min
Ball diameter D_w	5.556 mm
Number of balls z	21
Reference grease quantity G_{ref}	0.93 cm ³
Preload class A G_A	60 N
Static axial stiffness, preload class A	81 N/ μ m
Preload class B G_B	120 N
Static axial stiffness, preload class B	105 N/ μ m
Preload class C G_C	240 N



NTA PRECISION AXLE CORP.

Static axial stiffness, preload class C	137 N/ μ m
Preload class D G_D	480 N
Static axial stiffness, preload class D	183 N/ μ m
Calculation factor f	1.1
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	0.074 kg