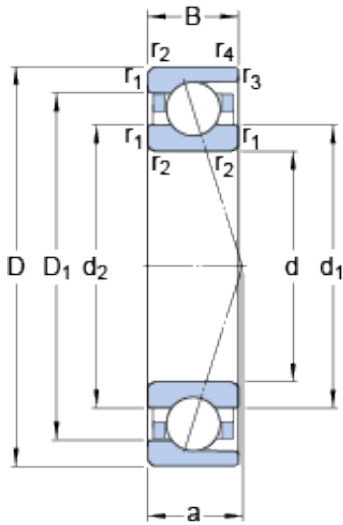




# NTN BEARUNG DRIVESHAFT, INC.



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

180 mm x 250 mm x 33 mm SKF 71936  
ACD/P4A angular contact ball bearings

Bearing No. 71936 ACD/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 <sub>1</sub>	201.6 mm
d <sub>2</sub>	201.6 mm
D <sub>1</sub>	228.4 mm
r <sub>1,2</sub> - min.	2 mm
r <sub>3,4</sub> - min.	1 mm
a	66.8 mm
d <sub>a</sub> - min.	189 mm
d <sub>b</sub> - min.	189 mm
D <sub>a</sub> - max.	241 mm
D <sub>b</sub> - max.	245 mm
r <sub>a</sub> - max.	2 mm
r <sub>b</sub> - max.	1 mm
d <sub>n</sub>	207.4 mm
Basic dynamic load rating - C	159 kN
Basic static load rating - C <sub>0</sub>	200 kN
Fatigue load limit - P <sub>u</sub>	5.8 kN
Limiting speed for grease	4800 r/min



## NTN BEARUNG DRIVESHAFT, INC.

Lubrication	
Limiting speed for oil lubrication	7000 mm/min
Ball - $D_w$	22.225 mm
Ball - $z$	27
$G_{ref}$	54 cm <sup>3</sup>
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 - $G_A$	1000 N
Preload class B - $G_B$	2000 N
Preload class C - $G_C$	4000 N
Preload class D - $G_D$	8000 N
Calculation factor - $f$	1.25
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	442 N/micron
Preload class B	581 N/micron
Preload class C	774 N/micron
Preload class D	1055 N/micron



## NTN BEARUNG DRIVESHAFT,INC.

Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0
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 Capacity Basic Design
Long Description	180MM Bore; 250MM Outside Diameter; 33MM Width; Open Enclosure; ABEC 7   ISO P4 Precision; Steel Ball Material; 1 (Single) Bearing; 25 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Ra
Category	Precision Ball Bearings
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Ball Angular Contact
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>



## NTN BEARUNG DRIVESHAFT,INC.

Bore	7.087 Inch   180 Millimeter
Width	1.299 Inch   33 Millimeter
Outside Diameter	9.843 Inch   250 Millimeter
$d_1$	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
$d_a$ 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	159 kN
Basic static load rating $C_0$	200 kN
Fatigue load limit $P_u$	5.85 kN
Attainable speed for grease lubrication	4800 r/min
Attainable speed for oil-air lubrication	7000 r/min
Ball diameter $D_w$	22.225 mm
Number of balls z	27
Reference grease quantity $G_{ref}$	54 cm <sup>3</sup>
Preload class A $G_A$	1000 N
Static axial stiffness, preload class A	442 N/ $\mu$ m
Preload class B $G_B$	2000 N
Static axial stiffness, preload class B	581 N/ $\mu$ m
Preload class C $G_C$	4000 N
Static axial stiffness, preload	774 N/ $\mu$ m



## NTN BEARUNG DRIVESHAFT,INC.

class C	
Preload class D $G_D$	8000 N
Static axial stiffness, preload class D	1055 N/ $\mu$ m
Calculation factor f	1.25
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	4.2 kg