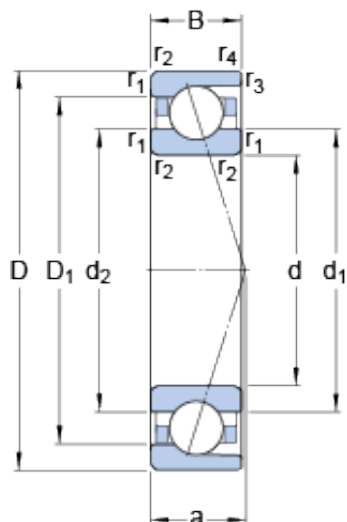




## NTN Bearing Driveshaft do Brasil



100 mm x 180 mm x 34 mm SKF 7220  
ACD/P4A angular contact ball bearings

Bearing No. 7220 ACD/P4A

7220 ACD/P4A Bearing 2D drawings and 3D CAD models

Size	180x100x34 mm
Bore Diameter	180 mm
Outer Diameter	100 mm
Width	34 mm
d	100 mm
D	180 mm
B	34 mm
d <sub>1</sub>	124.7 mm
d <sub>2</sub>	124.7 mm
D <sub>1</sub>	155.3 mm
r <sub>1,2</sub> - min.	2.1 mm
r <sub>3,4</sub> - min.	1.1 mm
a	49.9 mm
d <sub>a</sub> - min.	112 mm
d <sub>b</sub> - min.	112 mm
D <sub>a</sub> - max.	168 mm
D <sub>b</sub> - max.	173 mm
r <sub>a</sub> - max.	2 mm
r <sub>b</sub> - max.	1 mm
d <sub>n</sub>	131.4 mm
Basic dynamic load rating - C	148 kN
Basic static load rating - C <sub>0</sub>	129 kN
Fatigue load limit - P <sub>u</sub>	4.6 kN
Limiting speed for grease	7000 r/min



## NTN Bearing Driveshaft do Brasil

Lubrication	
Limiting speed for oil lubrication	11000 mm/min
Ball - $D_w$	25.4 mm
Ball - $z$	15
$G_{ref}$	40.899 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 - $G_A$	950 N
Preload class B - $G_B$	1900 N
Preload class C - $G_C$	3800 N
Preload class D - $G_D$	7600 N
Calculation factor - $f$	1.09
Calculation factor - $f_1$	0.99
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.01
Calculation factor - $f_{2C}$	1.02
Calculation factor - $f_{2D}$	1.05
Calculation factor - $f_{HC}$	1
Preload class A	296 N/micron
Preload class B	388 N/micron
Preload class C	509 N/micron
Preload class D	685 N/micron



## NTN Bearing Driveshaft do Brasil

Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	3.19
EAN	7316577093448
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   Super Precision   High Capacity Basic Design
Long Description	100MM Bore; 180MM Outside Diameter; 34MM 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



## NTN Bearing Driveshaft do Brasil

Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Bore	3.937 Inch   100 Millimeter
Outside Diameter	7.087 Inch   180 Millimeter
Width	1.339 Inch   34 Millimeter
$d_1$	124.7 mm
$d_2$	124.7 mm
$D_1$	155.3 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1.1 mm
$d_a$ min.	112 mm
$d_b$ min.	112 mm
$D_a$ max.	168 mm
$D_b$ max.	173 mm
$r_a$ max.	2 mm
$r_b$ max.	1 mm
$d_n$	131.4 mm
Basic dynamic load rating C	148 kN
Basic static load rating $C_0$	129 kN
Fatigue load limit $P_u$	4.65 kN
Attainable speed for grease lubrication	7000 r/min
Attainable speed for oil-air lubrication	11000 r/min
Ball diameter $D_w$	25.4 mm
Number of balls z	15
Reference grease quantity $G_{ref}$	40.899 cm <sup>3</sup>
Preload class A $G_A$	950 N
Static axial stiffness, preload class A	296 N/ $\mu$ m
Preload class B $G_B$	1900 N
Static axial stiffness, preload class B	388 N/ $\mu$ m
Preload class C $G_C$	3800 N



## NTN Bearing Driveshaft do Brasil

Static axial stiffness, preload class C	509 N/ $\mu$ m
Preload class D $G_D$	7600 N
Static axial stiffness, preload class D	685 N/ $\mu$ m
Calculation factor f	1.09
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.01
Calculation factor $f_{2C}$	1.02
Calculation factor $f_{2D}$	1.05
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	3.24 kg