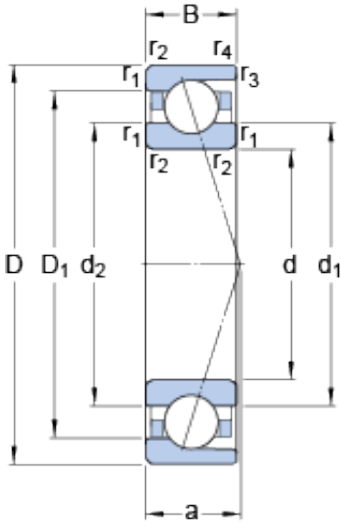




# NTL BEARINGS LTD.

## 71913 CD/P4A SKF High Speed Angular Contact Ball Bearings

Bearing No. 71913 CD/P4A



71913 CD/P4A Bearing 2D drawings and 3D CAD models

Size	90x65x13 mm
Bore Diameter	90 mm
Outer Diameter	65 mm
Width	13 mm
d	65 mm
D	90 mm
B	13 mm
d <sub>1</sub>	72.7 mm
d <sub>2</sub>	72.7 mm
D <sub>1</sub>	82.3 mm
r <sub>1,2</sub> - min.	1 mm
r <sub>3,4</sub> - min.	0.3 mm
a	17 mm
d <sub>a</sub> - min.	69.6 mm
d <sub>b</sub> - min.	69.6 mm
D <sub>a</sub> - max.	85.4 mm
D <sub>b</sub> - max.	88 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.3 mm
d <sub>n</sub>	74.7 mm
Basic dynamic load rating - C	20.8 kN
Basic static load rating - C <sub>0</sub>	17 kN
Fatigue load limit - P <sub>u</sub>	0.71 kN
Limiting speed for grease	14000 r/min



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Lubrication	
Limiting speed for oil lubrication	22000 mm/min
Ball - $D_w$	7.938 mm
Ball - $z$	26
$G_{ref}$	2.85 cm3
Calculation factor - $f_0$	10.7
Preload class A - $G_A$	80 N
Preload class B - $G_B$	160 N
Preload class C - $G_C$	320 N
Preload class D - $G_D$	640 N
Calculation factor - $f$	1.2
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	56 N/micron
Preload class B	75 N/micron
Preload class C	104 N/micron
Preload class D	148 N/micron
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



## NTL BEARINGS LTD.

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	65MM Bore; 90MM Outside Diameter; 13MM 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	<a href="http://www.skf.com">http://www.skf.com</a>
Bore	2.559 Inch   65 Millimeter
Outside Diameter	3.543 Inch   90 Millimeter
Width	0.512 Inch   13 Millimeter
d <sub>1</sub>	72.7 mm
d <sub>2</sub>	72.7 mm
D <sub>1</sub>	82.3 mm
r <sub>1,2</sub> min.	1 mm
r <sub>3,4</sub> min.	0.3 mm



## NTL BEARINGS LTD.

$d_a$ min.	69.6 mm
$d_b$ min.	69.6 mm
$D_a$ max.	85.4 mm
$D_b$ max.	88 mm
$r_a$ max.	1 mm
$r_b$ max.	0.3 mm
$d_n$	74.7 mm
Basic dynamic load rating C	20.8 kN
Basic static load rating $C_0$	17 kN
Fatigue load limit $P_u$	0.71 kN
Attainable speed for grease lubrication	14000 r/min
Attainable speed for oil-air lubrication	22000 r/min
Ball diameter $D_w$	7.938 mm
Number of balls z	26
Reference grease quantity $G_{ref}$	2.85 cm <sup>3</sup>
Preload class A $G_A$	80 N
Static axial stiffness, preload class A	56 N/ $\mu$ m
Preload class B $G_B$	160 N
Static axial stiffness, preload class B	75 N/ $\mu$ m
Preload class C $G_C$	320 N
Static axial stiffness, preload class C	104 N/ $\mu$ m
Preload class D $G_D$	640 N
Static axial stiffness, preload class D	148 N/ $\mu$ m
Calculation factor f	1.2
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.04



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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	0.21 kg