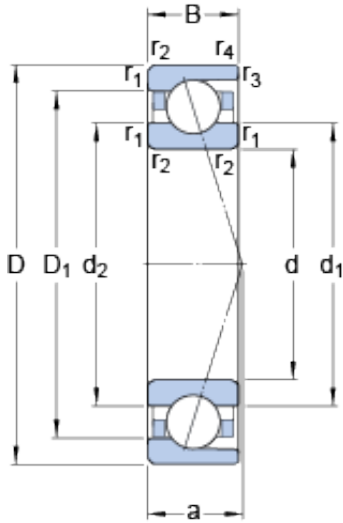




# NTL BEARINGS LTD.

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

Bearing No. 71913 ACD/P4A



71913 ACD/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	24.7 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	19.5 kN
Basic static load rating - C <sub>0</sub>	16 kN
Fatigue load limit - P <sub>u</sub>	0.68 kN
Limiting speed for grease	13000 r/min



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Lubrication	
Limiting speed for oil lubrication	20000 mm/min
Ball - $D_w$	7.938 mm
Ball - $z$	26
$G_{ref}$	2.85 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 - $G_A$	120 N
Preload class B - $G_B$	240 N
Preload class C - $G_C$	480 N
Preload class D - $G_D$	960 N
Calculation factor - $f$	1.2
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	136 N/micron
Preload class B	176 N/micron
Preload class C	232 N/micron
Preload class D	311 N/micron



## NTL BEARINGS LTD.

Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.23
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	65MM Bore; 90MM Outside Diameter; 13MM 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	<a href="http://www.skf.com">http://www.skf.com</a>
Manufacturer Item Number	71913 ACD/P4A



## NTL BEARINGS LTD.

Weight / LBS	0.505
Width	0.512 Inch   13 Millimeter
Outside Diameter	3.543 Inch   90 Millimeter
Bore	2.559 Inch   65 Millimeter
$d_1$	72.7 mm
$d_2$	72.7 mm
$D_1$	82.3 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
$d_a$ 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	19.5 kN
Basic static load rating $C_0$	16 kN
Fatigue load limit $P_u$	0.68 kN
Attainable speed for grease lubrication	13000 r/min
Attainable speed for oil-air lubrication	20000 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 $G_A$	120 N
Static axial stiffness, preload class A	136 N/ $\mu$ m
Preload class B $G_B$	240 N
Static axial stiffness, preload class B	176 N/ $\mu$ m
Preload class C $G_C$	480 N



## NTL BEARINGS LTD.

Static axial stiffness, preload class C	232 N/ $\mu$ m
Preload class D $G_D$	960 N
Static axial stiffness, preload class D	311 N/ $\mu$ m
Calculation factor f	1.2
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	0.21 kg