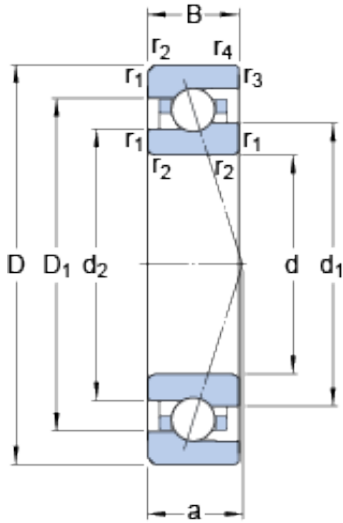




NTL BEARINGS LTD.



7013 CE/P4A Bearing 2D drawings and 3D CAD models

7013 CE/P4A SKF High Speed Angular Contact Ball Bearings

Bearing No. 7013 CE/P4A

Size	100x65x18 mm
Bore Diameter	100 mm
Outer Diameter	65 mm
Width	18 mm
d	65 mm
D	100 mm
B	18 mm
d ₁	77.26 mm
d ₂	74.9 mm
D ₁	87.72 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	20.2 mm
d _a - min.	71 mm
d _b - min.	71 mm
D _a - max.	94 mm
D _b - max.	95.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	79.3 mm
Basic dynamic load rating - C	20.3 kN
Basic static load rating - C ₀	15.6 kN
Fatigue load limit - P _u	0.655 kN
Limiting speed for grease	19000 r/min



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Lubrication	
Limiting speed for oil lubrication	30000 mm/min
Ball - D_w	8.731 mm
Ball - z	25
G_{ref}	6.2 cm ³
Calculation factor - f_0	8.4
Preload class A - G_A	110 N
Preload class B - G_B	330 N
Preload class C - G_C	650 N
Calculation factor - f	1.09
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.03
Calculation factor - f_{2C}	1.05
Calculation factor - f_{HC}	1
Preload class A	53 N/micron
Preload class B	83 N/micron
Preload class C	112 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
Material - Ball	Steel
Number of Bearings	1 (Single)
Contact Angle	15 Degree
Preload	None



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Raceway Style	1 Rib Inner Ring and Outer Ring
Cage Material	Phenolic
Rolling Element	Ball Bearing
Flush Ground	No
Inch - Metric	Metric
Other Features	Single Row Angular Contact High Speed E Design
Long Description	65MM Bore; 100MM Outside Diameter; 18MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearing; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Inner Ring and
Category	Precision Ball Bearings
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Ball Angular Contact
Manufacturer URL	http://www.skf.com
Bore	2.559 Inch 65 Millimeter
Width	0.709 Inch 18 Millimeter
Outside Diameter	3.937 Inch 100 Millimeter
d ₁	77.26 mm
d ₂	74.9 mm
D ₁	87.72 mm
r _{1,2} min.	1.1 mm
r _{3,4} min.	0.6 mm
d _a min.	71 mm
d _b min.	71 mm
D _a max.	94 mm
D _b max.	95.8 mm



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r_a max.	1 mm
r_b max.	0.6 mm
d_n	79.3 mm
Basic dynamic load rating C	20.3 kN
Basic static load rating C_0	15.6 kN
Fatigue load limit P_u	0.655 kN
Attainable speed for grease lubrication	19000 r/min
Attainable speed for oil-air lubrication	30000 r/min
Ball diameter D_w	8.731 mm
Number of balls z	25
Reference grease quantity G_{ref}	6.2 cm ³
Preload class A G_A	110 N
Static axial stiffness, preload class A	53 N/ μ m
Preload class B G_B	330 N
Static axial stiffness, preload class B	83 N/ μ m
Preload class C G_C	650 N
Static axial stiffness, preload class C	112 N/ μ m
Calculation factor f	1.09
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.03
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1
Calculation factor f_0	8.4
Mass bearing	0.43 kg