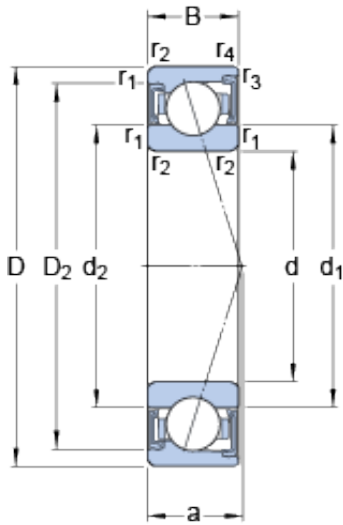




NTL BEARINGS LTD.

S7013 ACD/P4A SKF High Speed Angular Contact Ball Bearings

Bearing No. S7013 ACD/P4A



S7013 ACD/P4A Bearing 2D drawings and 3D CAD models

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	75.8 mm
d ₂	75.8 mm
D ₂	91.73 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	28.3 mm
d _a - min.	71 mm
d _a - max.	75.2 mm
d _b - min.	71 mm
d _b - max.	75.2 mm
D _a - max.	94 mm
D _b - max.	96.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
Basic dynamic load rating - C	39 kN
Basic static load rating - C ₀	35.5 kN
Fatigue load limit - P _u	1.5 kN



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Limiting speed for grease lubrication	12000 r/min
Ball - D_w	11.112 mm
Ball - z	20
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	240 N
Preload class B - G_B	480 N
Preload class C - G_C	960 N
Preload class D - G_D	1920 N
Calculation factor - f	1.13
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2D}	1.08
Calculation factor - f_{HC}	1
Preload class A	174 N/micron
Preload class B	227 N/micron
Preload class C	302 N/micron
Preload class D	409 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF



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Minimum Buy Quantity	N/A
Weight / Kilogram	0.47
Product Group	B04270
Enclosure	2 Seals
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
Enclosure Type	Non Contact Seal
Flush Ground	No
Inch - Metric	Metric
Other Features	Single Row Angular Contact High Precision
Long Description	65MM Bore; 100MM Outside Diameter; 18MM Width; 2 Seals Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearings; 25 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring
Category	Precision Ball Bearings
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Angular Contact Ball
Manufacturer URL	http://www.skf.com
Manufacturer Item Number	S7013 ACD/P4A
Weight / LBS	1.036
Bore	2.559 Inch 65 Millimeter



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Outside Diameter	3.937 Inch 100 Millimeter
Width	0.709 Inch 18 Millimeter
d_1	75.8 mm
d_2	75.8 mm
D_2	91.73 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	71 mm
d_a max.	75.2 mm
d_b min.	71 mm
d_b max.	75.2 mm
D_a max.	94 mm
D_b max.	96.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
Basic dynamic load rating C	39 kN
Basic static load rating C_0	35.5 kN
Fatigue load limit P_u	1.5 kN
Attainable speed for grease lubrication	12000 r/min
Ball diameter D_w	11.112 mm
Number of balls z	20
Preload class A G_A	240 N
Static axial stiffness, preload class A	174 N/ μ m
Preload class B G_B	480 N
Static axial stiffness, preload class B	227 N/ μ m
Preload class C G_C	960 N
Static axial stiffness, preload class C	302 N/ μ m
Preload class D G_D	1920 N
Static axial stiffness, preload class D	409 N/ μ m



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Calculation factor f	1.13
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{2D}	1.08
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	0.43 kg