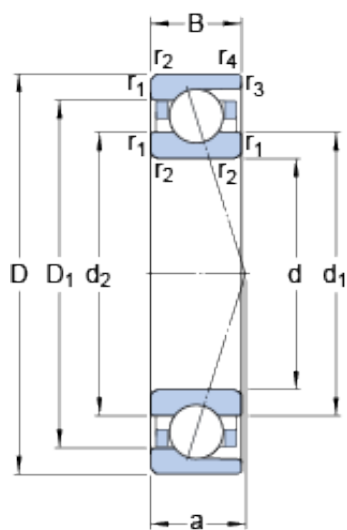




Bearing No. 7013 ACD/P4A

a	28.3 mm
d	65 mm
D	100 mm
B	18 mm
Bore	2.559 Inch 65 Millimeter
Noun	Bearing
Width	0.709 Inch 18 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	20
Category	Precision Ball Bearings
Size (mm)	100x65x18
Enclosure	Open
Inventory	0.0
Width (mm)	18
Weight / LBS	0.968
Flush Ground	No
Mass bearing	0.43 kg
d ₁	75.8 mm
d ₂	75.8 mm
D ₁	89.2 mm
Inch - Metric	Metric
Cage Material	Phenolic
d _n	78.1 mm
Contact Angle	25 Degree
Product Group	B04270
Raceway Style	1 Rib Outer Ring
d ₁	75.8 mm
d	78.1 mm

n	
D ₁	89.2 mm
d ₂	75.8 mm
Bearing number	7013 ACD/P4A
Other Features	Single Row Angular Contact High Precision
Keyword String	Angular Contact Ball
Material - Ball	Steel
Precision Class	ABEC 7 ISO P4
G _{ref}	5.7 cm3
Preload class D	409 N/micron
Preload class C	302 N/micron
Preload class B	227 N/micron
Preload class A	174 N/micron
Rolling Element	Ball Bearing
Long Description	65MM Bore; 100MM Outside Diameter; 18MM 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 Ra
Manufacturer URL	http://www.skf.com
Outside Diameter	3.937 Inch 100 Millimeter
Manufacturer Name	SKF
Number of balls z	20
Weight / Kilogram	0.44
Number of Bearings	1 (Single)
Bore Diameter (mm)	100
r _b max.	0.6 mm
r _a max.	1 mm

D_b max.	96.8 mm
D_a max.	94 mm
d_b min.	71 mm
d_a min.	71 mm
Outer Diameter (mm)	65
$r_{1,2}$ min.	1.1 mm
D_a - max.	94 mm
d_a - min.	71 mm
d_b - min.	71 mm
Calculation factor f	1.13
$r_{3,4}$ min.	0.6 mm
Calculation factor e	0.68
Ball - D_w	11.112 mm
D_b - max.	96.8 mm
Minimum Buy Quantity	N/A
r_b - max.	0.6 mm
r_a - max.	1 mm
Calculation factor - e	0.68
Calculation factor - f	1.13
$r_{1,2}$ - min.	1.1 mm
$r_{3,4}$ - min.	0.6 mm
Harmonized Tariff Code	8482.10.50.28
Manufacturer Item Number	7013 ACD/P4A
Ball diameter D_w	11.112 mm
Basic dynamic load rating C	39 kN
Preload class A G_A	240 N
Preload class D G_D	1920 N
Preload class C G_C	960 N
Basic dynamic load rating - C	39 kN
Preload class B G_B	480 N

Preload class C - G_C	960 N
Preload class A - G_A	240 N
Preload class D - G_D	1920 N
Preload class B - G_B	480 N
Calculation factor f_1	0.99
Fatigue load limit P_u	1.5 kN
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2D}	1.08
Calculation factor f_{2A}	1
Calculation factor - Y_0	0.76
Calculation factor - Y_2	1.41
Fatigue load limit - P_u	1.5 kN
Limiting speed for oil lubrication	19000 mm/min
Calculation factor - X_2	0.67
Calculation factor - Y_1	0.92
Calculation factor - f_1	0.99
Calculation factor - f_{2D}	1.08
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{HC}	1
Limiting speed for grease lubrication	12000 r/min
Basic static load rating C_0	35.5 kN
Attainable speed for grease lubrication	12000 r/min
Static axial stiffness,	409 N/ μ m

preload class D	
Static axial stiffness, preload class C	302 N/μm
Static axial stiffness, preload class B	227 N/μm
Static axial stiffness, preload class A	174 N/μm
Attainable speed for oil- air lubrication	19000 r/min
Basic static load rating - C_0	35.5 kN
Reference grease quantity G_{ref}	5.7 cm ³
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