

n	
D ₁	116.1 mm
d ₂	98.9 mm
Bearing number	7017 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}	11.7 cm ³
Preload class D	549 N/micron
Preload class C	405 N/micron
Preload class B	304 N/micron
Preload class A	233 N/micron
Rolling Element	Ball Bearing
Outside Diameter	5.118 Inch 130 Millimeter
Long Description	85MM Bore; 130MM Outside Diameter; 22MM 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
Weight / Kilogram	0.93
Manufacturer Name	SKF
Number of balls z	21
r _b max.	0.6 mm
Bore Diameter (mm)	130
D _a max.	124 mm
D _b max.	126 mm

d_a min.	91 mm
r_a max.	1 mm
Number of Bearings	1 (Single)
d_b min.	91 mm
Outer Diameter (mm)	85
d_a - min.	91 mm
$r_{1,2}$ min.	1.1 mm
d_b - min.	91 mm
Calculation factor f	1.15
$r_{3,4}$ min.	0.6 mm
Calculation factor e	0.68
D_a - max.	124 mm
Ball - D_w	14.288 mm
D_b - max.	126 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	1.15
$r_{1,2}$ - min.	1.1 mm
$r_{3,4}$ - min.	0.6 mm
Harmonized Tariff Code	8482.10.50.28
Manufacturer Item Number	7017 ACD/P4A
Ball diameter D_w	14.288 mm
Basic dynamic load rating C	63.7 kN
Preload class A G_A	400 N
Preload class D G_D	3200 N
Preload class C G_C	1600 N
Basic dynamic load rating - C	63.7 kN
Preload class B G_B	800 N

Preload class C - G_C	1600 N
Preload class A - G_A	400 N
Preload class D - G_D	3200 N
Preload class B - G_B	800 N
Calculation factor f_1	0.99
Fatigue load limit P_u	2.5 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	2.5 kN
Limiting speed for oil lubrication	14000 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	9000 r/min
Basic static load rating C_0	62 kN
Attainable speed for grease lubrication	9000 r/min
Static axial stiffness,	549 N/ μ m

preload class D	
Static axial stiffness, preload class C	405 N/ μ m
Static axial stiffness, preload class B	304 N/ μ m
Static axial stiffness, preload class A	233 N/ μ m
Attainable speed for oil-air lubrication	14000 r/min
Basic static load rating - C_0	62 kN
Reference grease quantity G_{ref}	11.7 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