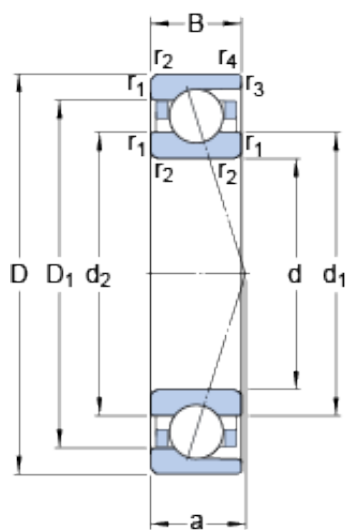




Bearing No. 7005 ACD/P4A

D	47 mm
d	25 mm
B	12 mm
a	14.5 mm
Bore	0.984 Inch 25 Millimeter
Noun	Bearing
Width	0.472 Inch 12 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	14
Category	Precision Ball Bearings
Size (mm)	47x25x12
Enclosure	Open
Inventory	0.0
Width (mm)	12
Flush Ground	No
Mass bearing	0.079 kg
d ₂	32.1 mm
Product Group	B04270
d _n	33.4 mm
d _n	33.4 mm
D ₁	39.9 mm
d ₂	32.1 mm
d ₁	32.1 mm
d ₁	32.1 mm
Inch - Metric	Metric
D ₁	39.9 mm
Cage Material	Phenolic

Raceway Style	1 Rib Outer Ring
Contact Angle	25 Degree
Keyword String	Ball Angular Contact
Other Features	Single Row Angular Contact High Capacity Basic Design
Bearing number	7005 ACD/P4A
Material - Ball	Steel
G _{ref}	1.02 cm3
Precision Class	ABEC 7 ISO P4
Rolling Element	Ball Bearing
Preload class D	143 N/micron
Preload class C	108 N/micron
Preload class B	83 N/micron
Preload class A	64 N/micron
Long Description	25MM Bore; 47MM Outside Diameter; 12MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearing; 25 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Race
Manufacturer URL	http://www.skf.com
Outside Diameter	1.85 Inch 47 Millimeter
Number of balls z	14
Weight / Kilogram	0.078
Manufacturer Name	SKF
Bore Diameter (mm)	47
D _a max.	43.8 mm
d _b min.	28.2 mm
r _b max.	0.3 mm
r _a max.	0.6 mm

Number of Bearings	1 (Single)
D_b max.	45 mm
d_a min.	28.2 mm
Outer Diameter (mm)	25
D_a - max.	43.8 mm
Ball - D_w	6.35 mm
D_b - max.	45 mm
Calculation factor f	1.05
$r_{1,2}$ min.	0.6 mm
Minimum Buy Quantity	N/A
r_a - max.	0.6 mm
d_b - min.	28.2 mm
$r_{3,4}$ min.	0.3 mm
Calculation factor e	0.68
r_b - max.	0.3 mm
d_a - min.	28.2 mm
Calculation factor - e	0.68
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.05
$r_{1,2}$ - min.	0.6 mm
$r_{3,4}$ - min.	0.3 mm
Ball diameter D_w	6.35 mm
Basic dynamic load rating C	9.23 kN
Preload class B G_B	120 N
Preload class D G_D	480 N
Preload class A G_A	60 N
Basic dynamic load rating - C	9.2 kN
Preload class C G_C	240 N
Preload class A - G_A	60 N
Preload class B - G_B	120 N

Preload class C - G_C	240 N
Preload class D - G_D	480 N
Fatigue load limit P_u	0.212 kN
Calculation factor f_1	0.99
Calculation factor f_{HC}	1
Calculation factor f_{2D}	1.08
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.02
Calculation factor f_{2A}	1
Calculation factor - Y_1	0.92
Fatigue load limit - P_u	0.212 kN
Calculation factor - Y_2	1.41
Calculation factor - f_1	0.99
Calculation factor - X_2	0.67
Limiting speed for oil lubrication	50000 mm/min
Calculation factor - Y_0	0.76
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
Limiting speed for grease lubrication	34000 r/min
Basic static load rating C_0	5 kN
Static axial stiffness, preload class C	108 N/ μ m
Static axial stiffness, preload class A	64 N/ μ m
Static axial stiffness, preload class D	143 N/ μ m

Attainable speed for grease lubrication	34000 r/min
Static axial stiffness, preload class B	83 N/ μ m
Basic static load rating - C_0	5 kN
Attainable speed for oil-air lubrication	50000 r/min
Reference grease quantity G_{ref}	1.02 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