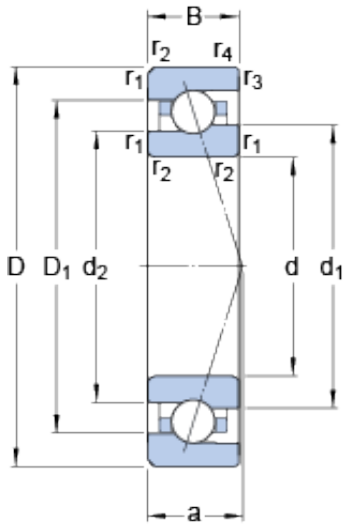




BEARING CORP.OF AMERICA



7016 ACE/P4A Bearing 2D drawings and 3D CAD models

80 mm x 125 mm x 22 mm SKF 7016 ACE/P4A angular contact ball bearings

Bearing No. 7016 ACE/P4A

Size	125x80x22 mm
Bore Diameter	125 mm
Outer Diameter	80 mm
Width	22 mm
d	80 mm
D	125 mm
B	22 mm
d ₁	95.83 mm
d ₂	93 mm
D ₁	109.17 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	35.1 mm
d _a - min.	86 mm
d _b - min.	86 mm
D _a - max.	119 mm
D _b - max.	120.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	98.5 mm
Basic dynamic load rating - C	32.5 kN
Basic static load rating - C ₀	26.5 kN
Fatigue load limit - P _u	1.1 kN
Limiting speed for grease	13700 r/min



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Lubrication	
Limiting speed for oil lubrication	21000 mm/min
Ball - D_w	11.112 mm
Ball - z	25
G_{ref}	12 cm3
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	280 N
Preload class B - G_B	850 N
Preload class C - G_C	1700 N
Calculation factor - f	1.1
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.03
Calculation factor - f_{2C}	1.06
Calculation factor - f_{HC}	1
Preload class A	178 N/micron
Preload class B	268 N/micron
Preload class C	352 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A



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Weight / Kilogram	0
Product Group	B04270
Enclosure	Open
Precision Class	ABEC 7 ISO P4
Material - Ball	Steel
Number of Bearings	1 (Single)
Contact Angle	25 Degree
Preload	None
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	80MM Bore; 125MM Outside Diameter; 22MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearing; 25 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
Width	0.866 Inch 22 Millimeter
Bore	3.15 Inch 80 Millimeter
Outside Diameter	4.921 Inch 125 Millimeter
d ₁	95.83 mm



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d_2	93 mm
D_1	109.17 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	86 mm
d_b min.	86 mm
D_a max.	119 mm
D_b max.	120.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	98.5 mm
Basic dynamic load rating C	32.5 kN
Basic static load rating C_0	26.5 kN
Fatigue load limit P_u	1.12 kN
Attainable speed for grease lubrication	13700 r/min
Attainable speed for oil-air lubrication	21000 r/min
Ball diameter D_w	11.112 mm
Number of balls z	25
Reference grease quantity G_{ref}	12 cm ³
Preload class A G_A	280 N
Static axial stiffness, preload class A	178 N/ μ m
Preload class B G_B	850 N
Static axial stiffness, preload class B	268 N/ μ m
Preload class C G_C	1700 N
Static axial stiffness, preload class C	352 N/ μ m
Calculation factor f	1.1
Calculation factor f_1	0.99
Calculation factor f_{2A}	1



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Calculation factor f_{2B}	1.03
Calculation factor f_{2C}	1.06
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	0.86 kg