



Bearing No. 7208 ACD/P4A

D	80 mm
d	40 mm
B	18 mm
a	23.1 mm
Bore	1.575 Inch 40 Millimeter
Noun	Bearing
Width	0.709 Inch 18 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	14
Category	Precision Ball Bearings
Size (mm)	80x40x18
Enclosure	Open
Inventory	0.0
Width (mm)	18
Flush Ground	No
Mass bearing	0.37 kg
d ₂	53.3 mm
Product Group	B04270
d _n	56.2 mm
d _n	56.2 mm
D ₁	66.7 mm
d ₂	53.3 mm
d ₁	53.3 mm
d ₁	53.3 mm
Inch - Metric	Metric
D ₁	66.7 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 Super Precision High Capacity Basic Design
Bearing number	7208 ACD/P4A
Material - Ball	Steel
G_{ref}	4.725 cm ³
Precision Class	ABEC 7 ISO P4
Rolling Element	Ball Bearing
Preload class D	294 N/micron
Preload class C	218 N/micron
Preload class B	165 N/micron
Preload class A	127 N/micron
Long Description	40MM Bore; 80MM Outside Diameter; 18MM 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	3.15 Inch 80 Millimeter
Number of balls z	14
Weight / Kilogram	0.359
Manufacturer Name	SKF
Bore Diameter (mm)	80
D_a max.	73 mm
d_b min.	47 mm
r_b max.	0.6 mm
r_a max.	1 mm

Number of Bearings	1 (Single)
D_b max.	75.8 mm
d_a min.	47 mm
Outer Diameter (mm)	40
D_a - max.	73 mm
Ball - D_w	11.112 mm
D_b - max.	75.8 mm
Calculation factor f	1.05
$r_{1,2}$ min.	1.1 mm
Minimum Buy Quantity	N/A
r_a - max.	1 mm
d_b - min.	47 mm
$r_{3,4}$ min.	0.6 mm
Calculation factor e	0.68
r_b - max.	0.6 mm
d_a - min.	47 mm
Calculation factor - e	0.68
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.05
$r_{1,2}$ - min.	1.1 mm
$r_{3,4}$ - min.	0.6 mm
Ball diameter D_w	11.112 mm
Basic dynamic load rating C	31.9 kN
Preload class B G_B	400 N
Preload class D G_D	1600 N
Preload class A G_A	200 N
Basic dynamic load rating - C	31.9 kN
Preload class C G_C	800 N
Preload class A - G_A	200 N
Preload class B - G_B	400 N

Preload class C - G_C	800 N
Preload class D - G_D	1600 N
Fatigue load limit P_u	0.98 kN
Calculation factor f_1	0.99
Calculation factor f_{HC}	1
Calculation factor f_{2D}	1.05
Calculation factor f_{2C}	1.02
Calculation factor f_{2B}	1.01
Calculation factor f_{2A}	1
Calculation factor - Y_1	0.92
Fatigue load limit - P_u	0.98 kN
Calculation factor - Y_2	1.41
Calculation factor - f_1	0.99
Calculation factor - X_2	0.67
Limiting speed for oil lubrication	26000 mm/min
Calculation factor - Y_0	0.76
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2C}	1.02
Calculation factor - f_{2D}	1.05
Calculation factor - f_{HC}	1
Limiting speed for grease lubrication	16000 r/min
Basic static load rating C_0	22.8 kN
Static axial stiffness, preload class C	218 N/ μ m
Static axial stiffness, preload class A	127 N/ μ m
Static axial stiffness, preload class D	294 N/ μ m

Attainable speed for grease lubrication	16000 r/min
Static axial stiffness, preload class B	165 N/ μ m
Basic static load rating - C_0	22.8 kN
Attainable speed for oil-air lubrication	26000 r/min
Reference grease quantity G_{ref}	4.725 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