



Bearing No. 7038 ACD/P4A

D	290 mm
d	190 mm
B	46 mm
a	79.2 mm
Bore	7.48 Inch 190 Millimeter
Noun	Bearing
Width	1.811 Inch 46 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	22
Category	Precision Ball Bearings
Size (mm)	290x190x46
Enclosure	Open
Inventory	0.0
Width (mm)	46
Flush Ground	No
Mass bearing	9.51 kg
d ₂	221.8 mm
Product Group	B04270
d _n	229.7 mm
d _n	229.7 mm
D ₁	258.2 mm
d ₂	221.8 mm
d ₁	221.8 mm
d ₁	221.8 mm
Inch - Metric	Metric
D ₁	258.2 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	7038 ACD/P4A
Material - Ball	Steel
G _{ref}	114 cm3
Precision Class	ABEC 7 ISO P4
Rolling Element	Ball Bearing
Preload class D	1088 N/micron
Preload class C	809 N/micron
Preload class B	613 N/micron
Preload class A	471 N/micron
Long Description	190MM Bore; 290MM Outside Diameter; 46MM 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 Ra
Manufacturer URL	http://www.skf.com
Outside Diameter	11.417 Inch 290 Millimeter
Number of balls z	22
Weight / Kilogram	0
Manufacturer Name	SKF
Bore Diameter (mm)	290
D _a max.	279 mm
d _b min.	201 mm
r _b max.	1 mm
r _a max.	2 mm

Number of Bearings	1 (Single)
D_b max.	284 mm
d_a min.	201 mm
Outer Diameter (mm)	190
D_a - max.	279 mm
Ball - D_w	30.162 mm
D_b - max.	284 mm
Calculation factor f	1.14
$r_{1,2}$ min.	2.1 mm
Minimum Buy Quantity	N/A
r_a - max.	2 mm
d_b - min.	201 mm
$r_{3,4}$ min.	1.1 mm
Calculation factor e	0.68
r_b - max.	1 mm
d_a - min.	201 mm
Calculation factor - e	0.68
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.14
$r_{1,2}$ - min.	2.1 mm
$r_{3,4}$ - min.	1.1 mm
Ball diameter D_w	30.162 mm
Basic dynamic load rating C	234 kN
Preload class B G_B	2900 N
Preload class D G_D	11600 N
Preload class A G_A	1450 N
Basic dynamic load rating - C	234 kN
Preload class C G_C	5800 N
Preload class A - G_A	1450 N
Preload class B - G_B	2900 N

Preload class C - G_C	5800 N
Preload class D - G_D	11600 N
Fatigue load limit P_u	8 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	8 kN
Calculation factor - Y_2	1.41
Calculation factor - f_1	0.99
Calculation factor - X_2	0.67
Limiting speed for oil lubrication	6300 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	4300 r/min
Basic static load rating C_0	290 kN
Static axial stiffness, preload class C	809 N/ μ m
Static axial stiffness, preload class A	471 N/ μ m
Static axial stiffness, preload class D	1088 N/ μ m

Attainable speed for grease lubrication	4300 r/min
Static axial stiffness, preload class B	613 N/ μ m
Basic static load rating - C_0	290 kN
Attainable speed for oil-air lubrication	6300 r/min
Reference grease quantity G_{ref}	114 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