



Bearing No. 7038 CD/P4A

| | |
|----------------|----------------------------|
| D | 290 mm |
| d | 190 mm |
| B | 46 mm |
| a | 55.3 mm |
| Noun | Bearing |
| Bore | 7.48 Inch 190 Millimeter |
| Width | 1.811 Inch 46 Millimeter |
| UNSPSC | 31171531 |
| Preload | None |
| Category | Precision Ball Bearings |
| Ball - z | 22 |
| Inventory | 0.0 |
| Enclosure | Open |
| Size (mm) | 290x190x46 |
| Width (mm) | 46 |
| Flush Ground | No |
| Mass bearing | 9.51 kg |
| d ₁ | 221.8 mm |
| d ₂ | 221.8 mm |
| d _n | 229.7 mm |
| Inch - Metric | Metric |
| D ₁ | 258.2 mm |
| Cage Material | Phenolic |
| Raceway Style | 1 Rib Outer Ring |
| d ₂ | 221.8 mm |
| Contact Angle | 15 Degree |
| d ₁ | 221.8 mm |
| D ₁ | 258.2 mm |

| | |
|-------------------|--|
| d_n | 229.7 mm |
| Product Group | B04270 |
| Other Features | Single Row Angular Contact High Capacity Basic Design |
| Keyword String | Ball Angular Contact |
| Bearing number | 7038 CD/P4A |
| Material - Ball | Steel |
| Preload class A | 196 N/micron |
| Precision Class | ABEC 7 ISO P4 |
| Rolling Element | Ball Bearing |
| Preload class D | 532 N/micron |
| G_{ref} | 114 cm ³ |
| Preload class B | 266 N/micron |
| Preload class C | 370 N/micron |
| Manufacturer URL | http://www.skf.com |
| Long Description | 190MM Bore; 290MM Outside Diameter; 46MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearing; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Ra |
| Outside Diameter | 11.417 Inch 290 Millimeter |
| Manufacturer Name | SKF |
| Weight / Kilogram | 0 |
| Number of balls z | 22 |
| D_a max. | 279 mm |
| D_b max. | 284 mm |
| r_a max. | 2 mm |
| r_b max. | 1 mm |
| d_b min. | 201 mm |

| | |
|-------------------------------|---------------|
| d_a min. | 201 mm |
| Bore Diameter (mm) | 290 |
| Number of Bearings | 1 (Single) |
| Outer Diameter (mm) | 190 |
| Ball - D_w | 30.162 mm |
| D_a - max. | 279 mm |
| $r_{3,4}$ min. | 1.1 mm |
| $r_{1,2}$ min. | 2.1 mm |
| d_a - min. | 201 mm |
| d_b - min. | 201 mm |
| Minimum Buy Quantity | N/A |
| D_b - max. | 284 mm |
| r_a - max. | 2 mm |
| r_b - max. | 1 mm |
| Calculation factor f | 1.14 |
| Harmonized Tariff Code | 8482.10.50.28 |
| Calculation factor - f | 1.14 |
| $r_{3,4}$ - min. | 1.1 mm |
| $r_{1,2}$ - min. | 2.1 mm |
| Basic dynamic load rating C | 247 kN |
| Ball diameter D_w | 30.162 mm |
| Preload class A G_A | 950 N |
| Basic dynamic load rating - C | 247 kN |
| Preload class B G_B | 1900 N |
| Preload class C G_C | 3800 N |
| Preload class D G_D | 7600 N |
| Preload class D - G_D | 7600 N |
| Preload class B - G_B | 1900 N |
| Preload class C - G_C | 3800 N |
| Preload class A - G_A | 950 N |

| | |
|---|----------------|
| Calculation factor f_0 | 15.9 |
| Fatigue load limit P_u | 8.3 kN |
| Calculation factor f_1 | 1 |
| Calculation factor f_{HC} | 1 |
| Calculation factor f_{2D} | 1.09 |
| Calculation factor f_{2C} | 1.05 |
| Calculation factor f_{2B} | 1.02 |
| Calculation factor - f | 1 |
| Calculation factor f_{2A} | 1 |
| Calculation factor - f_0 | 15.9 |
| Limiting speed for oil lubrication | 7000 mm/min |
| Fatigue load limit - P_u | 8.3 kN |
| Calculation factor - f_{HC} | 1 |
| Calculation factor - f_{2B} | 1.02 |
| Calculation factor - f_{2A} | 1 |
| Calculation factor - f_{2D} | 1.09 |
| Calculation factor - f_{2C} | 1.05 |
| Limiting speed for grease lubrication | 4800 r/min |
| Basic static load rating C_0 | 305 kN |
| Static axial stiffness, preload class B | 266 N/ μ m |
| Static axial stiffness, preload class C | 370 N/ μ m |
| Static axial stiffness, preload class D | 532 N/ μ m |
| Static axial stiffness, preload class A | 196 N/ μ m |
| Attainable speed for grease lubrication | 4800 r/min |
| Attainable speed for oil- | 7000 r/min |

| | |
|--|---------------------|
| air lubrication | |
| Basic static load rating - C_0 | 305 kN |
| Reference grease quantity G_{ref} | 114 cm ³ |