



Bearing No. 7019 ACD/P4A

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| a | 40.1 mm |
| d | 95 mm |
| D | 145 mm |
| B | 24 mm |
| Noun | Bearing |
| Bore | 3.74 Inch 95 Millimeter |
| Width | 0.945 Inch 24 Millimeter |
| UNSPSC | 31171531 |
| Preload | None |
| Ball - z | 21 |
| Category | Precision Ball Bearings |
| Size (mm) | 145x95x24 |
| Enclosure | Open |
| Inventory | 0.0 |
| Width (mm) | 24 |
| Weight / LBS | 2.743 |
| Flush Ground | No |
| Mass bearing | 1.21 kg |
| d ₁ | 110.4 mm |
| d ₂ | 110.4 mm |
| D ₁ | 129.6 mm |
| Inch - Metric | Metric |
| Cage Material | Phenolic |
| d _n | 113.7 mm |
| Contact Angle | 25 Degree |
| Product Group | B04270 |
| Raceway Style | 1 Rib Outer Ring |
| d ₁ | 110.4 mm |
| d _n | 113.7 mm |
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| D ₁ | 129.6 mm |
| d ₂ | 110.4 mm |
| Bearing number | 7019 ACD/P4A |
| Other Features | Single Row Angular Contact High Precision |
| Keyword String | Angular Contact Ball |
| Material - Ball | Steel |
| Precision Class | ABEC 7 ISO P4 |
| G _{ref} | 15.6 cm ³ |
| Preload class D | 607 N/micron |
| Preload class C | 448 N/micron |
| Preload class B | 337 N/micron |
| Preload class A | 258 N/micron |
| Rolling Element | Ball Bearing |
| Outside Diameter | 5.709 Inch 145 Millimeter |
| Long Description | 95MM Bore; 145MM Outside Diameter; 24MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearings; 25 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Ra |
| Manufacturer URL | http://www.skf.com |
| Weight / Kilogram | 1.25 |
| Manufacturer Name | SKF |
| Number of balls z | 21 |
| r _b max. | 1 mm |
| Bore Diameter (mm) | 145 |
| D _a max. | 138 mm |
| D _b max. | 141 mm |
| d _a min. | 102 mm |

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| r_a max. | 1.5 mm |
| Number of Bearings | 1 (Single) |
| d_b min. | 102 mm |
| Outer Diameter (mm) | 95 |
| d_a - min. | 102 mm |
| $r_{1,2}$ min. | 1.5 mm |
| d_b - min. | 102 mm |
| Calculation factor f | 1.15 |
| $r_{3,4}$ min. | 1 mm |
| Calculation factor e | 0.68 |
| D_a - max. | 138 mm |
| Ball - D_w | 15.875 mm |
| D_b - max. | 141 mm |
| Minimum Buy Quantity | N/A |
| r_b - max. | 1 mm |
| r_a - max. | 1.5 mm |
| Calculation factor - e | 0.68 |
| Calculation factor - f | 1.15 |
| $r_{1,2}$ - min. | 1.5 mm |
| $r_{3,4}$ - min. | 1 mm |
| Harmonized Tariff Code | 8482.10.50.28 |
| Manufacturer Item Number | 7019 ACD/P4A |
| Ball diameter D_w | 15.875 mm |
| Basic dynamic load rating C | 76.1 kN |
| Preload class A G_A | 480 N |
| Preload class D G_D | 3840 N |
| Preload class C G_C | 1920 N |
| Basic dynamic load rating - C | 76.1 kN |
| Preload class B G_B | 960 N |
| Preload class C - G_C | 1920 N |

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| Preload class A - G_A | 480 N |
| Preload class D - G_D | 3840 N |
| Preload class B - G_B | 960 N |
| Calculation factor f_1 | 0.99 |
| Fatigue load limit P_u | 2.9 kN |
| Calculation factor f_{2C} | 1.05 |
| Calculation factor f_{HC} | 1 |
| Calculation factor f_{2B} | 1.02 |
| Calculation factor f_{2D} | 1.08 |
| Calculation factor f_{2A} | 1 |
| Calculation factor - Y_0 | 0.76 |
| Calculation factor - Y_2 | 1.41 |
| Limiting speed for oil lubrication | 13000 mm/min |
| Fatigue load limit - P_u | 2.9 kN |
| Calculation factor - X_2 | 0.67 |
| Calculation factor - Y_1 | 0.92 |
| Calculation factor - f_1 | 0.99 |
| Calculation factor - f_{2D} | 1.08 |
| Calculation factor - f_{2A} | 1 |
| Calculation factor - f_{2B} | 1.02 |
| Calculation factor - f_{2C} | 1.05 |
| Calculation factor - f_{HC} | 1 |
| Limiting speed for grease lubrication | 8000 r/min |
| Basic static load rating C_0 | 76.5 kN |
| Attainable speed for grease lubrication | 8000 r/min |
| Static axial stiffness, preload class D | 607 N/ μ m |
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| Static axial stiffness, preload class C | 448 N/ μ m |
| Static axial stiffness, preload class B | 337 N/ μ m |
| Static axial stiffness, preload class A | 258 N/ μ m |
| Attainable speed for oil-air lubrication | 13000 r/min |
| Basic static load rating - C_0 | 76.5 kN |
| Reference grease quantity G_{ref} | 15.6 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 |