



71932 ACD/P4A Bearing 2D drawings and 3D CAD models

160 mm x 220 mm x 28 mm SKF 71932 ACD/P4A angular contact ball bearings

Bearing No. 71932 ACD/P4A

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|-------------------------------------------|---------------|
| Size | 220x160x28 mm |
| Bore Diameter | 220 mm |
| Outer Diameter | 160 mm |
| Width | 28 mm |
| d | 160 mm |
| D | 220 mm |
| B | 28 mm |
| d ₁ | 178.5 mm |
| d ₂ | 178.5 mm |
| D ₁ | 201.5 mm |
| r _{1,2} - min. | 2 mm |
| r _{3,4} - min. | 1 mm |
| a | 58.5 mm |
| d _a - min. | 169 mm |
| d _b - min. | 169 mm |
| D _a - max. | 211 mm |
| D _b - max. | 215 mm |
| r _a - max. | 2 mm |
| r _b - max. | 1 mm |
| d _n | 183.5 mm |
| Basic dynamic load rating - C | 124 kN |
| Basic static load rating - C ₀ | 153 kN |
| Fatigue load limit - P _u | 4.8 kN |
| Limiting speed for grease | 5300 r/min |

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|------------------------------------|--------------------|
| Lubrication | |
| Limiting speed for oil lubrication | 8000 mm/min |
| Ball - D_w | 19.05 mm |
| Ball - z | 28 |
| G_{ref} | 33 cm ³ |
| 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 | 800 N |
| Preload class B - G_B | 1600 N |
| Preload class C - G_C | 3200 N |
| Preload class D - G_D | 6400 N |
| Calculation factor - f | 1.27 |
| Calculation factor - f_1 | 0.98 |
| Calculation factor - f_{2A} | 1 |
| Calculation factor - f_{2B} | 1.04 |
| Calculation factor - f_{2C} | 1.08 |
| Calculation factor - f_{2D} | 1.14 |
| Calculation factor - f_{HC} | 1 |
| Preload class A | 402 N/micron |
| Preload class B | 530 N/micron |
| Preload class C | 710 N/micron |
| Preload class D | 970 N/micron |
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|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Category | Precision Ball Bearings |
| Inventory | 0.0 |
| Manufacturer Name | SKF |
| Minimum Buy Quantity | N/A |
| Weight / Kilogram | 0 |
| EAN | 7316570513417 |
| 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 Outer Ring |
| Cage Material | Phenolic |
| Rolling Element | Ball Bearing |
| Flush Ground | No |
| Inch - Metric | Metric |
| Other Features | Single Row Angular Contact High Capacity Basic Design |
| Long Description | 160MM Bore; 220MM Outside Diameter; 28MM 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 |
| Category | Precision Ball Bearings |
| UNSPSC | 31171531 |
| Harmonized Tariff Code | 8482.10.50.28 |
| Noun | Bearing |
| Keyword String | Ball Angular Contact |
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|------------------------------------------|-----------------------------------------------------|
| Manufacturer URL | http://www.skf.com |
| Bore | 6.299 Inch 160 Millimeter |
| Outside Diameter | 8.661 Inch 220 Millimeter |
| Width | 1.102 Inch 28 Millimeter |
| d_1 | 178.5 mm |
| d_2 | 178.5 mm |
| D_1 | 201.5 mm |
| $r_{1,2}$ min. | 2 mm |
| $r_{3,4}$ min. | 1 mm |
| d_a min. | 169 mm |
| d_b min. | 169 mm |
| D_a max. | 211 mm |
| D_b max. | 215 mm |
| r_a max. | 2 mm |
| r_b max. | 1 mm |
| d_n | 183.5 mm |
| Basic dynamic load rating C | 124 kN |
| Basic static load rating C_0 | 153 kN |
| Fatigue load limit P_u | 4.75 kN |
| Attainable speed for grease lubrication | 5300 r/min |
| Attainable speed for oil-air lubrication | 8000 r/min |
| Ball diameter D_w | 19.05 mm |
| Number of balls z | 28 |
| Reference grease quantity G_{ref} | 33 cm ³ |
| Preload class A G_A | 800 N |
| Static axial stiffness, preload class A | 402 N/ μ m |
| Preload class B G_B | 1600 N |
| Static axial stiffness, preload class B | 530 N/ μ m |
| Preload class C G_C | 3200 N |

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|-------------------------------------------------------|----------------|
| Static axial stiffness, preload class C | 710 N/ μ m |
| Preload class D G_D | 6400 N |
| Static axial stiffness, preload class D | 970 N/ μ m |
| Calculation factor f | 1.27 |
| Calculation factor f_1 | 0.98 |
| Calculation factor f_{2A} | 1 |
| Calculation factor f_{2B} | 1.04 |
| Calculation factor f_{2C} | 1.08 |
| Calculation factor f_{2D} | 1.14 |
| 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 | 2.7 kg |