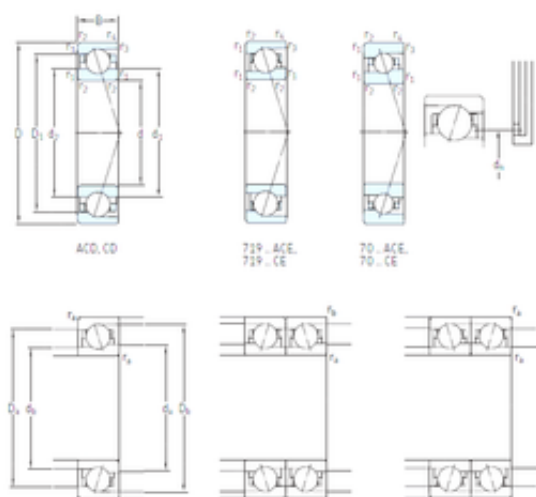




Bearing No. 7210 ACD/P4A

|           |                               |
|-----------|-------------------------------|
| C         | 20 mm                         |
| a         | 26.4 mm                       |
| d         | 50 mm                         |
| D         | 90 mm                         |
| B         | 20 mm                         |
| dh        | 65,6 mm                       |
| D2        | 80,7 mm                       |
| d2        | 62,3 mm                       |
| D1        | 77,7 mm                       |
| d1        | 62,3 mm                       |
| Bore      | 1.969 Inch   50<br>Millimeter |
| Noun      | Bearing                       |
| Width     | 0.787 Inch   20<br>Millimeter |
| db min    | 57 mm                         |
| Weight    | 0,46 Kg                       |
| Db max    | 85,8 mm                       |
| UNSPSC    | 31171531                      |
| rb max.   | 0,6 mm                        |
| ra max.   | 1 mm                          |
| Da max.   | 83 mm                         |
| da min.   | 57 mm                         |
| Preload   | None                          |
| r4 min.   | 0,6 mm                        |
| r3 min.   | 0,6 mm                        |
| r2 min.   | 1,1 mm                        |
| r1 min.   | 1,1 mm                        |
| Category  | Precision Ball Bearings       |
| Inventory | 0.0                           |
| Enclosure | Open                          |

|                  |                                                                                                                                                                                                          |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Size (mm)        | 50x90x20                                                                                                                                                                                                 |
| Width (mm)       | 20                                                                                                                                                                                                       |
| Mass bearing     | 0.46 kg                                                                                                                                                                                                  |
| Weight / LBS     | 1.047                                                                                                                                                                                                    |
| Flush Ground     | No                                                                                                                                                                                                       |
| d <sub>1</sub>   | 62.3 mm                                                                                                                                                                                                  |
| d <sub>2</sub>   | 62.3 mm                                                                                                                                                                                                  |
| Product Group    | B04270                                                                                                                                                                                                   |
| D <sub>1</sub>   | 77.7 mm                                                                                                                                                                                                  |
| Inch - Metric    | Metric                                                                                                                                                                                                   |
| Contact Angle    | 25 Degree                                                                                                                                                                                                |
| d <sub>n</sub>   | 65.6 mm                                                                                                                                                                                                  |
| Raceway Style    | 1 Rib Outer Ring                                                                                                                                                                                         |
| Cage Material    | Phenolic                                                                                                                                                                                                 |
| Other Features   | Single Row   Angular Contact   Super Precision   High Capacity                                                                                                                                           |
| Bearing number   | 7210 ACD/P4A                                                                                                                                                                                             |
| Keyword String   | Angular Contact Ball                                                                                                                                                                                     |
| Precision Class  | ABEC 7   ISO P4                                                                                                                                                                                          |
| Rolling Element  | Ball Bearing                                                                                                                                                                                             |
| Material - Ball  | Steel                                                                                                                                                                                                    |
| Long Description | 50MM Bore; 90MM Outside Diameter; 20MM 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 Rac |
| Manufacturer URL | <a href="http://www.skf.com">http://www.skf.com</a>                                                                                                                                                      |
| Outside Diameter | 3.543 Inch   90 Millimeter                                                                                                                                                                               |
|                  |                                                                                                                                                                                                          |

|                               |               |
|-------------------------------|---------------|
| Number of balls z             | 15            |
| Weight / Kilogram             | 0.479         |
| Manufacturer Name             | SKF           |
| $d_b$ min.                    | 57 mm         |
| Number of Bearings            | 1 (Single)    |
| Bore Diameter (mm)            | 50            |
| $r_b$ max.                    | 0.6 mm        |
| $r_a$ max.                    | 1 mm          |
| $D_b$ max.                    | 85.8 mm       |
| $D_a$ max.                    | 83 mm         |
| $d_a$ min.                    | 57 mm         |
| Outer Diameter (mm)           | 90            |
| $r_{3,4}$ min.                | 0.6 mm        |
| Calculation factor f          | 1.08          |
| Minimum Buy Quantity          | N/A           |
| Calculation factor e          | 0.68          |
| $r_{1,2}$ min.                | 1.1 mm        |
| Harmonized Tariff Code        | 8482.10.50.28 |
| (Oil) Lubrication Speed       | 22 000 r/min  |
| Fatigue load limit (Pu)       | 1,37          |
| Manufacturer Item Number      | 7210 ACD/P4A  |
| (Grease) Lubrication Speed    | 14 000 r/min  |
| Basic dynamic load rating C   | 42.3 kN       |
| Ball diameter $D_w$           | 12.7 mm       |
| Basic static load rating (C0) | 32,5 kN       |
| Basic dynamic load rating (C) | 42,3 kN       |
| Preload class C $G_C$         | 1060 N        |
| Preload class A $G_A$         | 265 N         |
| Preload class D $G_D$         | 2120 N        |

|                                                           |                       |
|-----------------------------------------------------------|-----------------------|
| Preload class B $G_B$                                     | 530 N                 |
| Calculation factor $f_1$                                  | 0.99                  |
| Fatigue load limit $P_u$                                  | 1.37 kN               |
| Calculation factor $f_{HC}$                               | 1                     |
| Calculation factor $f_{2B}$                               | 1.01                  |
| Calculation factor $f_{2D}$                               | 1.05                  |
| Calculation factor $f_{2C}$                               | 1.02                  |
| Calculation factor $f_{2A}$                               | 1                     |
| Basic static load rating<br>$C_0$                         | 32.5 kN               |
| Static axial stiffness,<br>preload class C                | 266 N/ $\mu$ m        |
| Static axial stiffness,<br>preload class B                | 201 N/ $\mu$ m        |
| Attainable speed for<br>grease lubrication                | 14000 r/min           |
| Static axial stiffness,<br>preload class D                | 359 N/ $\mu$ m        |
| Static axial stiffness,<br>preload class A                | 154 N/ $\mu$ m        |
| Attainable speed for oil-<br>air lubrication              | 22000 r/min           |
| Reference grease<br>quantity $G_{ref}$                    | 6.708 cm <sup>3</sup> |
| Calculation factor<br>(single, tandem) $Y_2$              | 0.87                  |
| Calculation factor<br>(single, tandem) $Y_0$              | 0.38                  |
| Calculation factor<br>(single, tandem) $X_2$              | 0.41                  |
| Calculation factor (back-<br>to-back, face-to-face) $Y_1$ | 0.92                  |
| Calculation factor (back-<br>to-back, face-to-face) $Y_2$ | 1.41                  |
| Calculation factor (back-<br>to-back, face-to-face) $Y_0$ | 0.76                  |
|                                                           |                       |



|                                                                |      |
|----------------------------------------------------------------|------|
| Calculation factor (back-to-back, face-to-face) X <sub>2</sub> | 0.67 |
|----------------------------------------------------------------|------|