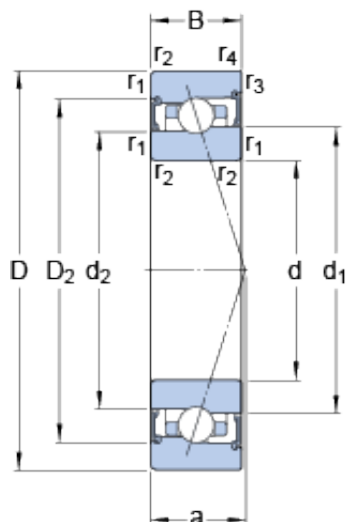




## NTN Bearing Driveshaft do Brasil



95 mm x 145 mm x 24 mm SKF S7019  
ACB/HCP4A angular contact ball bearings

Bearing No. S7019 ACB/HCP4A

S7019 ACB/HCP4A Bearing 2D drawings and 3D CAD models

|   |              |
|---|--------------|
| Size                                      | 145x95x24 mm |
| Bore Diameter                             | 145 mm       |
| Outer Diameter                            | 95 mm        |
| Width                                     | 24 mm        |
| d   | 95 mm        |
| D   | 145 mm       |
| B   | 24 mm        |
| d <sub>1</sub>                            | 113.7 mm     |
| d <sub>2</sub>                            | 111.15 mm    |
| D <sub>2</sub>                            | 130 mm       |
| r <sub>1,2</sub> - min.                   | 1.5 mm       |
| r <sub>3,4</sub> - min.                   | 1 mm         |
| a   | 40.2 mm      |
| d <sub>a</sub> - min.                     | 102 mm       |
| d <sub>a</sub> - max.                     | 112.9 mm     |
| d <sub>b</sub> - min.                     | 102 mm       |
| d <sub>b</sub> - max.                     | 110.4 mm     |
| D <sub>a</sub> - max.                     | 138 mm       |
| D <sub>b</sub> - max.                     | 140.4 mm     |
| r <sub>a</sub> - max.                     | 1.5 mm       |
| r <sub>b</sub> - max.                     | 1 mm         |
| Basic dynamic load rating - C             | 27.6 kN      |
| Basic static load rating - C <sub>0</sub> | 24.5 kN      |
| Fatigue load limit - P <sub>u</sub>       | 0.95 kN      |



## NTN Bearing Driveshaft do Brasil

|                                       |              |
|---------------------------------------|--------------|
| Limiting speed for grease lubrication | 13000 r/min  |
| Ball - $D_w$                          | 10.319 mm    |
| Ball - z                              | 26           |
| 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 - $G_A$               | 165 N        |
| Preload class B - $G_B$               | 330 N        |
| Preload class C - $G_C$               | 990 N        |
| Calculation factor - f                | 1.07         |
| Calculation factor - $f_1$            | 0.99         |
| Calculation factor - $f_{2A}$         | 1            |
| Calculation factor - $f_{2B}$         | 1.02         |
| Calculation factor - $f_{2C}$         | 1.05         |
| Calculation factor - $f_{HC}$         | 1.01         |
| Preload class A                       | 165 N/micron |
| Preload class B                       | 211 N/micron |
| Preload class C                       | 318 N/micron |
| $d_1$                                 | 113.7 mm     |
| $d_2$                                 | 111.15 mm    |
| $D_2$                                 | 130 mm       |
| $r_{1,2}$ min.                        | 1.5 mm       |
| $r_{3,4}$ min.                        | 1 mm         |
| $d_a$ min.                            | 102 mm       |



## NTN Bearing Driveshaft do Brasil

|   |                |
|---|----------------|
| $d_a$ max.                                | 112.9 mm       |
| $d_b$ min.                                | 102 mm         |
| $d_b$ max.                                | 110.4 mm       |
| $D_a$ max.                                | 138 mm         |
| $D_b$ max.                                | 140.4 mm       |
| $r_a$ max.                                | 1.5 mm         |
| $r_b$ max.                                | 1 mm           |
| Basic dynamic load rating C               | 35.8 kN        |
| Basic static load rating $C_0$            | 41.5 kN        |
| Fatigue load limit $P_u$                  | 0.95 kN        |
| Attainable speed for grease lubrication   | 13000 r/min    |
| Ball diameter $D_w$                       | 10.319 mm      |
| Number of balls z                         | 26             |
| Preload class A $G_A$                     | 165 N          |
| Static axial stiffness, preload class A   | 165 N/ $\mu$ m |
| Preload class B $G_B$                     | 330 N          |
| Static axial stiffness, preload class B   | 211 N/ $\mu$ m |
| Preload class C $G_C$                     | 990 N          |
| Static axial stiffness, preload class C   | 318 N/ $\mu$ m |
| Calculation factor f                      | 1.07           |
| Calculation factor $f_1$                  | 0.99           |
| Calculation factor $f_{2A}$               | 1              |
| Calculation factor $f_{2B}$               | 1.02           |
| Calculation factor $f_{2C}$               | 1.05           |
| Calculation factor $f_{HC}$               | 1.01           |
| Calculation factor e                      | 0.68           |
| Calculation factor (single, tandem) $Y_2$ | 0.87           |
| Calculation factor (single, tandem) $Y_0$ | 0.38           |
|   |                |



## NTN Bearing Driveshaft do Brasil

|   |         |
|---|---------|
| 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  | 1.23 kg |