



71919 CB/P4A Bearing 2D drawings and 3D CAD models

## 95 mm x 130 mm x 18 mm SKF 71919 CB/P4A angular contact ball bearings

Bearing No. 71919 CB/P4A

|   |              |
|---|--------------|
| Size                                      | 130x95x18 mm |
| Bore Diameter                             | 130 mm       |
| Outer Diameter                            | 95 mm        |
| Width                                     | 18 mm        |
| d   | 95 mm        |
| D   | 130 mm       |
| B   | 18 mm        |
| d <sub>1</sub>                            | 107.94 mm    |
| d <sub>2</sub>                            | 106.36 mm    |
| D <sub>2</sub>                            | 120.7 mm     |
| r <sub>1,2</sub> - min.                   | 1.1 mm       |
| r <sub>3,4</sub> - min.                   | 0.6 mm       |
| a   | 28.2 mm      |
| d <sub>a</sub> - min.                     | 101 mm       |
| d <sub>b</sub> - min.                     | 101 mm       |
| D <sub>a</sub> - max.                     | 124 mm       |
| D <sub>b</sub> - max.                     | 126.8 mm     |
| r <sub>a</sub> - max.                     | 1 mm         |
| r <sub>b</sub> - max.                     | 0.6 mm       |
| d <sub>n</sub>                            | 109 mm       |
| Basic dynamic load rating - C             | 18.2 kN      |
| Basic static load rating - C <sub>0</sub> | 18.6 kN      |
| Fatigue load limit - P <sub>u</sub>       | 0.75 kN      |
| Limiting speed for grease                 | 13000 r/min  |



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|                                    |                     |
|------------------------------------|---------------------|
| Lubrication                        |                     |
| Limiting speed for oil lubrication | 20000 mm/min        |
| Ball - $D_w$                       | 7.144 mm            |
| Ball - $z$                         | 38                  |
| $G_{ref}$                          | 7.5 cm <sup>3</sup> |
| Calculation factor - $f_0$         | 10                  |
| Preload class A - $G_A$            | 60 N                |
| Preload class B - $G_B$            | 120 N               |
| Preload class C - $G_C$            | 360 N               |
| Calculation factor - $f$           | 1.13                |
| Calculation factor - $f$           | 1                   |
| Calculation factor - $f_{2A}$      | 1                   |
| Calculation factor - $f_{2B}$      | 1.02                |
| Calculation factor - $f_{2C}$      | 1.07                |
| Calculation factor - $f_{HC}$      | 1                   |
| Preload class A                    | 56 N/micron         |
| Preload class B                    | 73 N/micron         |
| Preload class C                    | 117 N/micron        |
| $d_1$                              | 107.94 mm           |
| $d_2$                              | 106.36 mm           |
| $D_2$                              | 120.7 mm            |
| $r_{1,2}$ min.                     | 1.1 mm              |
| $r_{3,4}$ min.                     | 0.6 mm              |
| $d_a$ min.                         | 101 mm              |
| $d_b$ min.                         | 101 mm              |
| $D_a$ max.                         | 124 mm              |
| $D_b$ max.                         | 126.8 mm            |
| $r_a$ max.                         | 1 mm                |
| $r_b$ max.                         | 0.6 mm              |
| $d_n$                              | 109 mm              |



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|  |                     |
|--|---------------------|
| Basic dynamic load rating C              | 24.7 kN             |
| Basic static load rating $C_0$           | 30 kN               |
| Fatigue load limit $P_u$                 | 0.75 kN             |
| Attainable speed for grease lubrication  | 13000 r/min         |
| Attainable speed for oil-air lubrication | 20000 r/min         |
| Ball diameter $D_w$                      | 7.144 mm            |
| Number of balls z                        | 38                  |
| Reference grease quantity $G_{ref}$      | 7.5 cm <sup>3</sup> |
| Preload class A $G_A$                    | 60 N                |
| Static axial stiffness, preload class A  | 56 N/ $\mu$ m       |
| Preload class B $G_B$                    | 120 N               |
| Static axial stiffness, preload class B  | 73 N/ $\mu$ m       |
| Preload class C $G_C$                    | 360 N               |
| Static axial stiffness, preload class C  | 117 N/ $\mu$ m      |
| Calculation factor f                     | 1.13                |
| Calculation factor $f_1$                 | 1                   |
| Calculation factor $f_{2A}$              | 1                   |
| Calculation factor $f_{2B}$              | 1.02                |
| Calculation factor $f_{2C}$              | 1.07                |
| Calculation factor $f_{HC}$              | 1                   |
| Calculation factor $f_0$                 | 10                  |
| Mass bearing                             | 0.61 kg             |