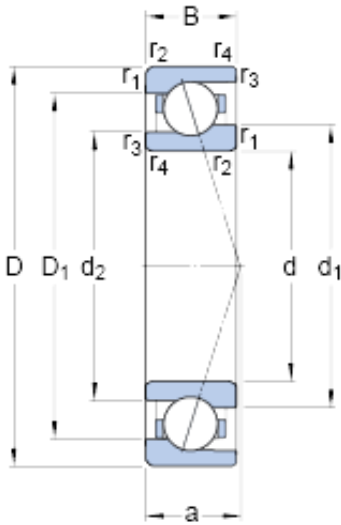




# CSC BEARING GROUP limited



## 35 mm x 55 mm x 10 mm SKF 71907 CE/HCP4A Angular contact ball bearing

Bearing No. 71907 CE/HCP4A

71907 CE/HCP4A Bearing 2D drawings and 3D CAD models

|   |             |
|---|-------------|
| Size                                      | 55x35x10 mm |
| Bore Diameter                             | 55 mm       |
| Outer Diameter                            | 35 mm       |
| Width                                     | 10 mm       |
| d   | 35 mm       |
| D   | 55 mm       |
| B   | 10 mm       |
| d <sub>1</sub>                            | 41.7 mm     |
| d <sub>2</sub>                            | 40.2 mm     |
| D <sub>1</sub>                            | 48.29 mm    |
| r <sub>1,2</sub> - min.                   | 0.6 mm      |
| r <sub>3,4</sub> - min.                   | 0.3 mm      |
| a   | 11.4 mm     |
| d <sub>a</sub> - min.                     | 38.2 mm     |
| d <sub>b</sub> - min.                     | 37 mm       |
| D <sub>a</sub> - max.                     | 51.8 mm     |
| D <sub>b</sub> - max.                     | 53 mm       |
| r <sub>a</sub> - max.                     | 0.6 mm      |
| r <sub>b</sub> - max.                     | 0.3 mm      |
| d <sub>n</sub>                            | 43 mm       |
| Basic dynamic load rating - C             | 7.6 kN      |
| Basic static load rating - C <sub>0</sub> | 4.8 kN      |
| Fatigue load limit - P <sub>u</sub>       | 0.2 kN      |
| Limiting speed for grease                 | 43000 r/min |



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|                                    |                     |
|------------------------------------|---------------------|
| Lubrication                        |                     |
| Limiting speed for oil lubrication | 65000 mm/min        |
| Ball - $D_w$                       | 5.556 mm            |
| Ball - $z$                         | 19                  |
| $G_{ref}$                          | 0.8 cm <sup>3</sup> |
| Calculation factor - $f_0$         | 8.3                 |
| Preload class A - $G_A$            | 41 N                |
| Preload class B - $G_B$            | 125 N               |
| Preload class C - $G_C$            | 250 N               |
| Calculation factor - $f$           | 1.05                |
| Calculation factor - $f$           | 1                   |
| Calculation factor - $f_{2A}$      | 1                   |
| Calculation factor - $f_{2B}$      | 1.05                |
| Calculation factor - $f_{2C}$      | 1.09                |
| Calculation factor - $f_{HC}$      | 1.01                |
| Preload class A                    | 31 N/micron         |
| Preload class B                    | 48 N/micron         |
| Preload class C                    | 66 N/micron         |
| $d_1$                              | 41.7 mm             |
| $d_2$                              | 40.2 mm             |
| $D_1$                              | 48.29 mm            |
| $r_{1,2}$ min.                     | 0.6 mm              |
| $r_{3,4}$ min.                     | 0.3 mm              |
| $d_a$ min.                         | 38.2 mm             |
| $d_b$ min.                         | 37 mm               |
| $D_a$ max.                         | 51.8 mm             |
| $D_b$ max.                         | 53 mm               |
| $r_a$ max.                         | 0.6 mm              |
| $r_b$ max.                         | 0.3 mm              |
| $d_n$                              | 43 mm               |



## CSC BEARING GROUP limited

|  |                     |
|--|---------------------|
| Basic dynamic load rating C              | 7.61 kN             |
| Basic static load rating $C_0$           | 4.75 kN             |
| Fatigue load limit $P_u$                 | 0.2 kN              |
| Attainable speed for grease lubrication  | 43000 r/min         |
| Attainable speed for oil-air lubrication | 65000 r/min         |
| Ball diameter $D_w$                      | 5.556 mm            |
| Number of balls z                        | 19                  |
| Reference grease quantity $G_{ref}$      | 0.8 cm <sup>3</sup> |
| Preload class A $G_A$                    | 41 N                |
| Static axial stiffness, preload class A  | 31 N/ $\mu$ m       |
| Preload class B $G_B$                    | 125 N               |
| Static axial stiffness, preload class B  | 48 N/ $\mu$ m       |
| Preload class C $G_C$                    | 250 N               |
| Static axial stiffness, preload class C  | 66 N/ $\mu$ m       |
| Calculation factor f                     | 1.05                |
| Calculation factor $f_1$                 | 1                   |
| Calculation factor $f_{2A}$              | 1                   |
| Calculation factor $f_{2B}$              | 1.05                |
| Calculation factor $f_{2C}$              | 1.09                |
| Calculation factor $f_{HC}$              | 1.01                |
| Calculation factor $f_0$                 | 8.3                 |
| Mass bearing                             | 0.067 kg            |