



# JieFei Bearing Co., Ltd



71938 ACD/HCP4A Bearing 2D drawings and 3D CAD models

## 190 mm x 260 mm x 33 mm SKF 71938 ACD/HCP4A angular contact ball bearings

Bearing No. 71938 ACD/HCP4A

|   |               |
|---|---------------|
| Size                                      | 260x190x33 mm |
| Bore Diameter                             | 260 mm        |
| Outer Diameter                            | 190 mm        |
| Width                                     | 33 mm         |
| d   | 190 mm        |
| D   | 260 mm        |
| B   | 33 mm         |
| d <sub>1</sub>                            | 211.6 mm      |
| d <sub>2</sub>                            | 211.6 mm      |
| D <sub>1</sub>                            | 238.4 mm      |
| r <sub>1,2</sub> - min.                   | 2 mm          |
| r <sub>3,4</sub> - min.                   | 1 mm          |
| a   | 69.2 mm       |
| d <sub>a</sub> - min.                     | 199 mm        |
| d <sub>b</sub> - min.                     | 199 mm        |
| D <sub>a</sub> - max.                     | 251 mm        |
| D <sub>b</sub> - max.                     | 255 mm        |
| r <sub>a</sub> - max.                     | 2 mm          |
| r <sub>b</sub> - max.                     | 1 mm          |
| d <sub>n</sub>                            | 217.4 mm      |
| Basic dynamic load rating - C             | 163 kN        |
| Basic static load rating - C <sub>0</sub> | 208 kN        |
| Fatigue load limit - P <sub>u</sub>       | 5.8 kN        |
| Limiting speed for grease                 | 5300 r/min    |



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|                                    |                    |
|------------------------------------|--------------------|
| Lubrication                        |                    |
| Limiting speed for oil lubrication | 8000 mm/min        |
| Ball - $D_w$                       | 22.225 mm          |
| Ball - $z$                         | 28                 |
| $G_{ref}$                          | 57 cm <sup>3</sup> |
| 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 - $G_A$            | 1000 N             |
| Preload class B - $G_B$            | 2000 N             |
| Preload class C - $G_C$            | 4000 N             |
| Preload class D - $G_D$            | 8000 N             |
| Calculation factor - $f$           | 1.27               |
| Calculation factor - $f_1$         | 0.98               |
| Calculation factor - $f_{2A}$      | 1                  |
| Calculation factor - $f_{2B}$      | 1.07               |
| Calculation factor - $f_{2C}$      | 1.12               |
| Calculation factor - $f_{2D}$      | 1.17               |
| Calculation factor - $f_{HC}$      | 1.04               |
| Preload class A                    | 505 N/micron       |
| Preload class B                    | 665 N/micron       |
| Preload class C                    | 886 N/micron       |
| Preload class D                    | 1210 N/micron      |
|                                    |                    |



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|  |                    |
|--|--------------------|
| $d_1$                                    | 211.6 mm           |
| $d_2$                                    | 211.6 mm           |
| $D_1$                                    | 238.4 mm           |
| $r_{1,2}$ min.                           | 2 mm               |
| $r_{3,4}$ min.                           | 1 mm               |
| $d_a$ min.                               | 199 mm             |
| $d_b$ min.                               | 199 mm             |
| $D_a$ max.                               | 251 mm             |
| $D_b$ max.                               | 255 mm             |
| $r_a$ max.                               | 2 mm               |
| $r_b$ max.                               | 1 mm               |
| $d_n$                                    | 217.4 mm           |
| Basic dynamic load rating C              | 163 kN             |
| Basic static load rating $C_0$           | 208 kN             |
| Fatigue load limit $P_u$                 | 5.85 kN            |
| Attainable speed for grease lubrication  | 5300 r/min         |
| Attainable speed for oil-air lubrication | 8000 r/min         |
| Ball diameter $D_w$                      | 22.225 mm          |
| Number of balls z                        | 28                 |
| Reference grease quantity $G_{ref}$      | 57 cm <sup>3</sup> |
| Preload class A $G_A$                    | 1000 N             |
| Static axial stiffness, preload class A  | 505 N/ $\mu$ m     |
| Preload class B $G_B$                    | 2000 N             |
| Static axial stiffness, preload class B  | 665 N/ $\mu$ m     |
| Preload class C $G_C$                    | 4000 N             |
| Static axial stiffness, preload class C  | 886 N/ $\mu$ m     |
| Preload class D $G_D$                    | 8000 N             |
| Static axial stiffness, preload class D  | 1210 N/ $\mu$ m    |



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|   |         |
|---|---------|
| class D   |         |
| Calculation factor f                                  | 1.27    |
| Calculation factor $f_1$                              | 0.98    |
| Calculation factor $f_{2A}$                           | 1       |
| Calculation factor $f_{2B}$                           | 1.07    |
| Calculation factor $f_{2C}$                           | 1.12    |
| Calculation factor $f_{2D}$                           | 1.17    |
| Calculation factor $f_{HC}$                           | 1.04    |
| 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  | 3.64 kg |