



Bearing No. 7215 CD/HCP4A

|                     |               |
|---------------------|---------------|
| D                   | 130 mm        |
| d                   | 75 mm         |
| B                   | 25 mm         |
| a                   | 26.3 mm       |
| Ball - z            | 17            |
| Size (mm)           | 130x75x25     |
| Width (mm)          | 25            |
| Mass bearing        | 1.04 kg       |
| d <sub>n</sub>      | 96.6 mm       |
| d <sub>n</sub>      | 96.6 mm       |
| D <sub>1</sub>      | 112.1 mm      |
| d <sub>1</sub>      | 92.9 mm       |
| d <sub>2</sub>      | 92.9 mm       |
| D <sub>1</sub>      | 112.1 mm      |
| d <sub>2</sub>      | 92.9 mm       |
| d <sub>1</sub>      | 92.9 mm       |
| Bearing number      | 7215 CD/HCP4A |
| Preload class A     | 97 N/micron   |
| G <sub>ref</sub>    | 14.895 cm3    |
| Preload class C     | 183 N/micron  |
| Preload class D     | 263 N/micron  |
| Preload class B     | 131 N/micron  |
| Number of balls z   | 17            |
| r <sub>b</sub> max. | 0.6 mm        |
| r <sub>a</sub> max. | 1.5 mm        |
| D <sub>b</sub> max. | 125.8 mm      |
| D <sub>a</sub> max. | 121 mm        |
| d <sub>a</sub> min. | 84 mm         |
| Bore Diameter (mm)  | 130           |
|                     |               |

|                               |           |
|-------------------------------|-----------|
| $d_b$ min.                    | 84 mm     |
| Outer Diameter (mm)           | 75        |
| $d_a$ - min.                  | 84 mm     |
| $r_a$ - max.                  | 1.5 mm    |
| $r_{1,2}$ min.                | 1.5 mm    |
| Calculation factor f          | 1.08      |
| $D_b$ - max.                  | 125.8 mm  |
| $r_{3,4}$ min.                | 0.6 mm    |
| $D_a$ - max.                  | 121 mm    |
| Ball - $D_w$                  | 15.875 mm |
| $r_b$ - max.                  | 0.6 mm    |
| $d_b$ - min.                  | 84 mm     |
| $r_{3,4}$ - min.              | 0.6 mm    |
| $r_{1,2}$ - min.              | 1.5 mm    |
| Calculation factor - f        | 1.08      |
| Basic dynamic load rating C   | 71.5 kN   |
| Ball diameter $D_w$           | 15.875 mm |
| Preload class C $G_C$         | 1080 N    |
| Preload class D $G_D$         | 2160 N    |
| Preload class B $G_B$         | 540 N     |
| Preload class A $G_A$         | 270 N     |
| Basic dynamic load rating - C | 71.5 kN   |
| Preload class D - $G_D$       | 2160 N    |
| Preload class C - $G_C$       | 1080 N    |
| Preload class B - $G_B$       | 540 N     |
| Preload class A - $G_A$       | 270 N     |
| Calculation factor $f_1$      | 1         |
| Calculation factor $f_0$      | 15        |
| Fatigue load limit $P_u$      | 2.65 kN   |
| Calculation factor $f_{HC}$   | 1.01      |

|                                          |                        |
|------------------------------------------|------------------------|
| Calculation factor $f_{2D}$              | 1.06                   |
| Calculation factor $f_{2C}$              | 1.03                   |
| Calculation factor $f_{2B}$              | 1.01                   |
| Calculation factor $f_{2A}$              | 1                      |
| Calculation factor - $f$                 | 1                      |
| Fatigue load limit - $P_u$               | 2.6 kN                 |
| Limiting speed for oil lubrication       | 20000 mm/min           |
| Calculation factor - $f_0$               | 15                     |
| Calculation factor - $f_{2A}$            | 1                      |
| Calculation factor - $f_{HC}$            | 1.01                   |
| Calculation factor - $f_{2C}$            | 1.03                   |
| Calculation factor - $f_{2B}$            | 1.01                   |
| Calculation factor - $f_{2D}$            | 1.06                   |
| Limiting speed for grease lubrication    | 14000 r/min            |
| Basic static load rating $C_0$           | 62 kN                  |
| Static axial stiffness, preload class D  | 263 N/ $\mu$ m         |
| Static axial stiffness, preload class B  | 131 N/ $\mu$ m         |
| Static axial stiffness, preload class A  | 97 N/ $\mu$ m          |
| Attainable speed for grease lubrication  | 14000 r/min            |
| Static axial stiffness, preload class C  | 183 N/ $\mu$ m         |
| Basic static load rating - $C_0$         | 62 kN                  |
| Attainable speed for oil-air lubrication | 20000 r/min            |
| Reference grease quantity $G_{ref}$      | 14.895 cm <sup>3</sup> |

