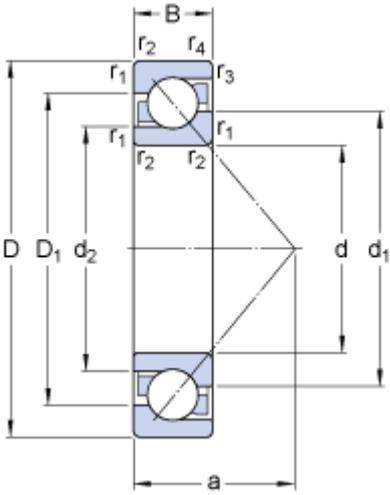


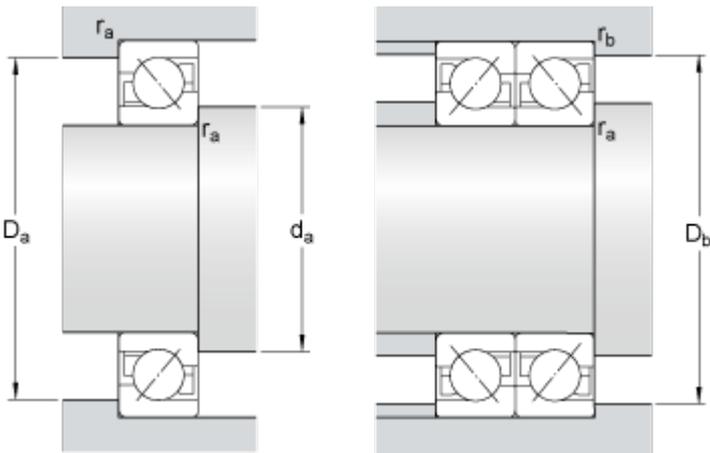
# 7224 BCBM

## Dimensions



|           |             |    |
|-----------|-------------|----|
| $d$       | 4.724       | in |
| $D$       | 8.465       | in |
| $B$       | 1.575       | in |
| $d_1$     | ≈ 6.181     | in |
| $d_2$     | ≈ 5.457     | in |
| $D_1$     | ≈ 7.063     | in |
| $a$       | 3.543       | in |
| $r_{1,2}$ | min. 0.0827 | in |
| $r_{3,4}$ | min. 0.0433 | in |

## Abutment dimensions



|       |             |    |
|-------|-------------|----|
| $d_a$ | min. 5.197  | in |
| $D_a$ | max. 7.992  | in |
| $D_b$ | max. 8.189  | in |
| $r_a$ | max. 0.0787 | in |
| $r_b$ | max. 0.0394 | in |

## Calculation data

|                           |       |           |       |
|---------------------------|-------|-----------|-------|
| Basic dynamic load rating | $C$   | 37093.476 | lbf   |
| Basic static load rating  | $C_0$ | 36643.858 | lbf   |
| Fatigue load limit        | $P_u$ | 1191.487  | lbf   |
| Reference speed           |       | 3400      | r/min |
| Limiting speed            |       | 3600      | r/min |
| Calculation factor        | $k_r$ | 0.08      |       |
| Calculation factor        | $k_a$ | 1.2       |       |
| Calculation factor        | $e$   | 1.14      |       |

## Single bearing or bearing pair arranged in tandem

|                    |       |      |  |
|--------------------|-------|------|--|
| Calculation factor | $X$   | 0.35 |  |
| Calculation factor | $Y_0$ | 0.26 |  |

|                                                           |       |      |
|-----------------------------------------------------------|-------|------|
| Calculation factor                                        | $Y_2$ | 0.57 |
| <b>Bearing pair arranged back-to-back or face-to-face</b> |       |      |
| Calculation factor                                        | X     | 0.57 |
| Calculation factor                                        | $Y_0$ | 0.52 |
| Calculation factor                                        | $Y_1$ | 0.55 |
| Calculation factor                                        | $Y_2$ | 0.93 |

## Mass

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|              |  |        |    |
|--------------|--|--------|----|
| Mass bearing |  | 12.985 | lb |
|--------------|--|--------|----|

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