

**FAG****32007-XDY**

Tapered roller bearing

Tapered roller bearings 320, main dimensions acc. to DIN 720, separable

## Technical information

**Your current product variant**

|                 |          |  |
|-----------------|----------|--|
| Tolerance class | PN       | Normal (ISO 492:2023)                        |
| Heat treatment  | Standard |  |
| Cage            | Standard | Sheet steel cage, window cage, roller-guided |
| Quality level   | Standard |  |
| Number of rows  | 1        | Single-row design                            |

**Main Dimensions & Performance Data**

|             |              |                                   |
|-------------|--------------|-----------------------------------|
| d           | 35 mm        | Bore diameter                     |
| D           | 62 mm        | Outside diameter                  |
| B           | 18 mm        | Width, inner ring                 |
| C           | 14 mm        | Width, outer ring                 |
| T           | 18 mm        | Width, total                      |
| $C_r$       | 41.500 N     | Basic dynamic load rating, radial |
| $C_{0r}$    | 52.000 N     | Basic static load rating, radial  |
| $C_{ur}$    | 6.400 N      | Fatigue load limit, radial        |
| $n_G$       | 11.600 1/min | Limiting speed                    |
| $n_{gr}$    | 7.200 1/min  | Thermal speed rating              |
| $\approx m$ | 222 g        | Weight                            |



### Mounting dimensions

|              |       |                                      |
|--------------|-------|--------------------------------------|
| $d_{a \max}$ | 40 mm | Maximum diameter of shaft shoulder   |
| $d_{b \min}$ | 41 mm | Minimum diameter of shaft shoulder   |
| $D_{a \min}$ | 54 mm | Minimum diameter of housing shoulder |
| $D_{a \max}$ | 56 mm | Maximum diameter of housing shoulder |
| $D_{b \min}$ | 59 mm | Minimum diameter of housing shoulder |
| $C_{a \min}$ | 4 mm  | Minimum axial space                  |
| $C_{b \min}$ | 4 mm  | Minimum axial space                  |
| $r_{a \max}$ | 1 mm  | Maximum fillet radius of shaft       |
| $r_{b \max}$ | 1 mm  | Maximum fillet radius of housing     |

### Dimensions

|                 |         |   |
|-----------------|---------|---|
| $r_{1, 2 \min}$ | 1 mm    | Minimum chamfer dimension of inner ring back face |
| $r_{3, 4 \min}$ | 1 mm    | Minimum chamfer dimension of outer ring back face |
| $a$             | 15 mm   | Distance between the apexes of the pressure cones |
| $d_1$           | 49,8 mm | Guidance rib diameter of inner ring               |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 120 °C | Operating temperature max. |

### Calculation factors

|       |      |  |
|-------|------|--|
| $e$   | 0,45 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y$   | 1,32 | Dynamic axial load factor  |
| $Y_0$ | 0,73 | Static axial load factor   |

### Additional information

T4CC035

Comparative designation to ISO 10317 and ISO 355



### Characteristics

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-  Radial load
-  Axial load in one direction
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed