

**3004-2RS-C3**

## Angular contact ball bearing

Angular contact ball bearing 30..-B-2RS-TVH,  
double row, seals, plastic cage

## Technical information

**Your current product variant**

|                                  |      |  |
|----------------------------------|------|--|
| Design variant                   | B    | Bearing without filling slot                             |
| Type of Sealing                  | 2RS  | Contact seal on both sides                               |
| Cage                             | TVH  | Solid cage made of glass-fiber reinforced polyamide PA66 |
| Tolerance class                  | PN   | Normal (PN)  |
| Dimensional / heat stabilization | SN   | Rings dimensional stabilized up to 120°                  |
| Lubricant                        | GA14 | Ball bearing grease, low noise                           |
| Axial internal clearance         | C3   | Group 3 (C3), bigger than CN                             |

**Main Dimensions & Performance Data**

|          |              |                                   |
|----------|--------------|-----------------------------------|
| d        | 20 mm        | Bore diameter                     |
| D        | 42 mm        | Outside diameter                  |
| B        | 16 mm        | Width                             |
| $C_r$    | 14.300 N     | Basic dynamic load rating, radial |
| $C_{0r}$ | 9.400 N      | Basic static load rating, radial  |
| $C_{ur}$ | 490 N        | Fatigue load limit, radial        |
| $n_G$    | 10.500 1/min | Limiting speed                    |
| $m$      | 0,091 kg     | Weight                            |



### Mounting dimensions

|              |         |                                      |
|--------------|---------|--------------------------------------|
| $d_{a \min}$ | 23,2 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 38,8 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 0,6 mm  | Maximum fillet radius                |

### Dimensions

|            |          |   |
|------------|----------|---|
| $r_{\min}$ | 0,6 mm   | Minimum chamfer dimension                         |
| $D_1$      | 35 mm    | Shoulder diameter outer ring                      |
| $D_2$      | 36,38 mm | Caliber diameter outer ring                       |
| $d_1$      | 27,1 mm  | Shoulder diameter inner ring                      |
| $d_2$      | 25,31 mm | Caliber diameter inner ring                       |
| $a$        | 21,1 mm  | Distance between the apexes of the pressure cones |
| $\alpha$   | 25 °     | Contact angle                                     |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -20 °C | Operating temperature min. |
| $T_{\max}$ | 100 °C | Operating temperature max. |

### Characteristics

|   |  |
|---|--|
|  | Radial load                                    |
|  | Axial load in one direction                    |
|  | Axial load in two directions                   |
|  | Lifetime lubrication, freedom from maintenance |
|  | Grease Lubrication                             |
|  | Sealed on both sides                           |