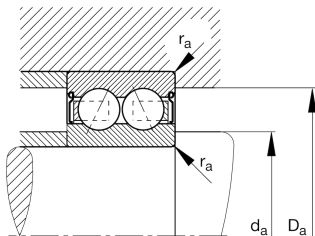
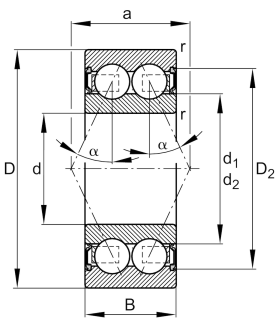


**3002-2RS**

## 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 Seal                     | 2RS  | Contact seal on both sides                               |
| Cage                             | TVH  | Solid cage made of glass-fiber reinforced polyamide PA66 |
| Tolerance class                  | PN   | Normal (ISO 492:2023)                                    |
| Dimensional / heat stabilization | SN   | Rings dimensional stabilized up to 120°                  |
| Lubricant                        | GA14 | Ball bearing grease, low noise                           |
| Axial internal clearance         | CN   | Group N (CN)                                             |

## Main Dimensions &amp; Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 15 mm        | Bore diameter                     |
| D               | 32 mm        | Outside diameter                  |
| B               | 13 mm        | Width                             |
| C <sub>r</sub>  | 8.500 N      | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 5.400 N      | Basic static load rating, radial  |
| C <sub>ur</sub> | 280 N        | Fatigue load limit, radial        |
| n <sub>G</sub>  | 12.900 1/min | Limiting speed                    |
| m               | 0,043 kg     | Weight                            |



### Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 17 mm  | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 30 mm  | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 0,3 mm | Maximum fillet radius                |

### Dimensions

|            |          |                                                   |
|------------|----------|---------------------------------------------------|
| $r_{\min}$ | 0,3 mm   | Minimum chamfer dimension                         |
| $D_1$      | 27,23 mm | Shoulder diameter outer ring                      |
| $D_2$      | 27,84 mm | Caliber diameter outer ring                       |
| $d_1$      | 21,3 mm  | Shoulder diameter inner ring                      |
| $d_2$      | 19,88 mm | Caliber diameter inner ring                       |
| $a$        | 16,3 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                           |