

**3812-2RS**

## Angular contact ball bearing

Angular contact ball bearing 38..-B-2RS-TVH,  
double row, seals, plastic cage

## Technical information

**Your current product variant**

|                                  |      |  |
|----------------------------------|------|--|
| Design variant                   | B    | Bearing without filling slot                             |
| 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                        | GA13 | Ball bearing and insert bearing grease                   |
| Axial internal clearance         | CN   | Group N (CN)   |

**Main Dimensions & Performance Data**

|             |             |                                   |
|-------------|-------------|-----------------------------------|
| d           | 60 mm       | Bore diameter                     |
| D           | 78 mm       | Outside diameter                  |
| B           | 14 mm       | Width                             |
| $C_r$       | 14.200 N    | Basic dynamic load rating, radial |
| $C_{0r}$    | 17.100 N    | Basic static load rating, radial  |
| $C_{ur}$    | 970 N       | Fatigue load limit, radial        |
| $n_G$       | 4.050 1/min | Limiting speed                    |
| $\approx m$ | 0,15 kg     | Weight                            |



### Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 62 mm  | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 76 mm  | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 0,3 mm | Maximum fillet radius                |

### Dimensions

|            |          |   |
|------------|----------|---|
| $r_{\min}$ | 0,3 mm   | Minimum chamfer dimension                         |
| $D_1$      | 72,88 mm | Shoulder diameter outer ring                      |
| $D_2$      | 74,72 mm | Caliber diameter outer ring                       |
| $d_1$      | 67,1 mm  | Shoulder diameter inner ring                      |
| $d_2$      | 65,68 mm | Caliber diameter inner ring                       |
| $a$        | 38,1 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                           |