

**FAG****2303-2RS-TVH>J** 

Self-aligning ball bearing

Self-aligning ball bearing 23..-2RS-TVH,  
seals, plastic cage

## Informacje techniczne



## Twoja aktualna wersja produktu

|                           |              |                                                          |
|---------------------------|--------------|----------------------------------------------------------|
| Version code              | >J           | Not marked on bearing                                    |
| Bore type                 | Z            | Cylindrical                                              |
| Sealing                   | 2RS          | Contact seal on both sides                               |
| Cage                      | TVH          | Solid cage made of glass-fiber reinforced polyamide PA66 |
| Tolerance class           | PN           | Normal (ISO 492:2023)                                    |
| Radial internal clearance | CN (Group N) | Normal internal clearance                                |
| Lubricant                 | GA14         | Ball bearing grease, low noise                           |

## Main Dimensions &amp; Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 17 mm        | Bore diameter                     |
| D               | 47 mm        | Outside diameter                  |
| B               | 19 mm        | Width                             |
| C <sub>r</sub>  | 12.900 N     | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 3.200 N      | Basic static load rating, radial  |
| C <sub>ur</sub> | 202 N        | Fatigue load limit, radial        |
| n <sub>G</sub>  | 10.700 1/min | Limiting speed                    |
| ≈m              | 0,164 kg     | Masa                              |

## Mounting dimensions

|                    |         |                                      |
|--------------------|---------|--------------------------------------|
| d <sub>a min</sub> | 22,6 mm | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 41,4 mm | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 1 mm    | Maximum fillet radius                |



### Dimensions

|            |          |                              |
|------------|----------|------------------------------|
| $r_{\min}$ | 1 mm     | Minimum chamfer dimension    |
| $D_1$      | 37,2 mm  | Shoulder diameter outer ring |
| $D_2$      | 39,4 mm  | Caliber diameter outer ring  |
| $d_1$      | 26,5 mm  | Shoulder diameter inner ring |
| $d_2$      | 23,85 mm | Caliber diameter inner ring  |

### Temperature range

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

### Calculation factors

|       |      |                                                                                      |
|-------|------|--------------------------------------------------------------------------------------|
| $e$   | 0,32 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 1,94 | Dynamic axial load factor                                                            |
| $Y_2$ | 3,01 | Dynamic axial load factor                                                            |
| $Y_0$ | 2,04 | Static axial load factor                                                             |

### Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Obciążenie osiowe dwukierunkowe



Smarowanie dożywotnie, bezobsługowe



Smarowanie smarem



Uszczelnienie dwustronne



Nieosiowość statyczna



Nieosiowość dynamiczna