



FAG

2302-TVH>J

Self-aligning ball bearing

Self-aligning ball bearing 23...TVH, plastic cage

Informacje techniczne



Twoja aktualna wersja produktu

|                           |              |                                                          |
|---------------------------|--------------|----------------------------------------------------------|
| Version code              | >J           | Not marked on bearing                                    |
| Bore type                 | Z            | Cylindrical                                              |
| Sealing                   | Without      | Not sealed                                               |
| 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                 | Without      | Bearing not greased                                      |

Main Dimensions & Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 15 mm        | Bore diameter                     |
| D               | 42 mm        | Outside diameter                  |
| B               | 17 mm        | Width                             |
| C <sub>r</sub>  | 17.400 N     | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 3.850 N      | Basic static load rating, radial  |
| C <sub>ur</sub> | 244 N        | Fatigue load limit, radial        |
| n <sub>G</sub>  | 17.200 1/min | Limiting speed                    |
| n <sub>gr</sub> | 15.600 1/min | Reference speed                   |
| ≈m              | 0,116 kg     | Masa                              |



### Mounting dimensions

|              |         |                                      |
|--------------|---------|--------------------------------------|
| $d_{a \min}$ | 20,6 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 36,4 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1 mm    | Maximum fillet radius                |

### Dimensions

|            |          |                              |
|------------|----------|------------------------------|
| $r_{\min}$ | 1 mm     | Minimum chamfer dimension    |
| $D_1$      | 34,43 mm | Shoulder diameter outer ring |
| $d_1$      | 22,5 mm  | Shoulder diameter inner ring |

### Temperature range

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

### Calculation factors

|       |      |                                                                                      |
|-------|------|--------------------------------------------------------------------------------------|
| $e$   | 0,43 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 1,47 | Dynamic axial load factor                                                            |
| $Y_2$ | 2,28 | Dynamic axial load factor                                                            |
| $Y_0$ | 1,54 | Static axial load factor                                                             |

### Właściwości

|                                                                                     |                                   |
|-------------------------------------------------------------------------------------|-----------------------------------|
|  | Obciążenie promieniowe            |
|  | Obciążenie osiowe jednokierunkowe |
|  | Obciążenie osiowe dwukierunkowe   |
|  | Smarowanie smarem                 |
|  | Smarowanie olejem                 |
|  | Bez uszczelnienia                 |
|  | Nieosiowość statyczna             |
|  | Nieosiowość dynamiczna            |