



FAG

1203-TVH>N

Self-aligning ball bearing

Self-aligning ball bearing 12..-TVH, plastic cage

Informacje techniczne



Twoja aktualna wersja produktu

|                           |              |                                                          |
|---------------------------|--------------|----------------------------------------------------------|
| Version code              | >N           | Not marked on bearing                                    |
| Bore type                 | Z            | Cylindrical                                              |
| Type of Seal              | 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               | 17 mm        | Bore diameter                     |
| D               | 40 mm        | Outside diameter                  |
| B               | 12 mm        | Width                             |
| C <sub>r</sub>  | 8.100 N      | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 2.010 N      | Basic static load rating, radial  |
| C <sub>ur</sub> | 128 N        | Fatigue load limit, radial        |
| n <sub>G</sub>  | 21.800 1/min | Limiting speed                    |
| n <sub>gr</sub> | 17.400 1/min | Reference speed                   |
| ≈m              | 0,073 kg     | Masa                              |



### Mounting dimensions

|              |         |                                      |
|--------------|---------|--------------------------------------|
| $d_{a\ min}$ | 21,2 mm | Minimum diameter shaft shoulder      |
| $D_{a\ max}$ | 35,8 mm | Maximum diameter of housing shoulder |
| $r_{a\ max}$ | 0,6 mm  | Maximum fillet radius                |

### Dimensions

|             |          |                              |
|-------------|----------|------------------------------|
| $r_{\ min}$ | 0,6 mm   | Minimum chamfer dimension    |
| $D_1$       | 31,97 mm | Shoulder diameter outer ring |
| $d_1$       | 23,7 mm  | Shoulder diameter inner ring |

### Temperature range

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

### Calculation factors

|       |      |                                                                                      |
|-------|------|--------------------------------------------------------------------------------------|
| $e$   | 0,33 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 1,93 | Dynamic axial load factor                                                            |
| $Y_2$ | 2,98 | Dynamic axial load factor                                                            |
| $Y_0$ | 2,02 | Static axial load factor                                                             |

### Właściwości

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