



FAG

1204-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               | 20 mm        | Bore diameter                     |
| D               | 47 mm        | Outside diameter                  |
| B               | 14 mm        | Width                             |
| C <sub>r</sub>  | 10.100 N     | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 2.600 N      | Basic static load rating, radial  |
| C <sub>ur</sub> | 166 N        | Fatigue load limit, radial        |
| n <sub>G</sub>  | 18.100 1/min | Limiting speed                    |
| n <sub>gr</sub> | 15.300 1/min | Reference speed                   |
| ≈m              | 0,116 kg     | Masa                              |



Mounting dimensions

|              |         |                                      |
|--------------|---------|--------------------------------------|
| $d_{a\ min}$ | 25,6 mm | Minimum diameter shaft shoulder      |
| $D_{a\ max}$ | 41,4 mm | Maximum diameter of housing shoulder |
| $r_{a\ max}$ | 1 mm    | Maximum fillet radius                |

Dimensions

|             |          |                              |
|-------------|----------|------------------------------|
| $r_{\ min}$ | 1 mm     | Minimum chamfer dimension    |
| $D_{\ 1}$   | 37,75 mm | Shoulder diameter outer ring |
| $d_{\ 1}$   | 29,2 mm  | Shoulder diameter inner ring |

Temperature range

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

Calculation factors

|           |      |                                                                                      |
|-----------|------|--------------------------------------------------------------------------------------|
| $e$       | 0,28 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_{\ 1}$ | 2,24 | Dynamic axial load factor                                                            |
| $Y_{\ 2}$ | 3,47 | Dynamic axial load factor                                                            |
| $Y_{\ 0}$ | 2,35 | Static axial load factor                                                             |

Właściwości

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