



FAG

1311-TVH>N

Self-aligning ball bearing

Self-aligning ball bearing 13..-TVH, plastic cage

Informacje techniczne



Twoja aktualna wersja produktu

|                           |              |                                                          |
|---------------------------|--------------|----------------------------------------------------------|
| Version code              | >N           | 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               | 55 mm       | Bore diameter                     |
| D               | 120 mm      | Outside diameter                  |
| B               | 29 mm       | Width                             |
| C <sub>r</sub>  | 52.000 N    | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 17.900 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 1.130 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 6.100 1/min | Limiting speed                    |
| n <sub>gr</sub> | 5.800 1/min | Reference speed                   |
| ≈m              | 1,58 kg     | Masa                              |



Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a\ min}$ | 66 mm  | Minimum diameter shaft shoulder      |
| $D_{a\ max}$ | 109 mm | Maximum diameter of housing shoulder |
| $r_{a\ max}$ | 2 mm   | Maximum fillet radius                |

Dimensions

|             |           |                              |
|-------------|-----------|------------------------------|
| $r_{\ min}$ | 2 mm      | Minimum chamfer dimension    |
| $D_1$       | 101,04 mm | Shoulder diameter outer ring |
| $d_1$       | 78 mm     | Shoulder diameter inner ring |

Temperature range

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

Calculation factors

|       |      |                                                                                      |
|-------|------|--------------------------------------------------------------------------------------|
| $e$   | 0,24 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 2,65 | Dynamic axial load factor                                                            |
| $Y_2$ | 4,1  | Dynamic axial load factor                                                            |
| $Y_0$ | 2,78 | Static axial load factor                                                             |

Właściwości

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