



FAG

6311-H-2Z-SN>N

Deep groove ball bearing

Deep groove ball bearing 63...-H-2Z, single row, H-Series, shields, steel sheet metal cage

Informacje techniczne



Twoja aktualna wersja produktu

|                                  |                    |                                         |
|----------------------------------|--------------------|-----------------------------------------|
| Version code                     | >N                 | Not marked on bearing                   |
| Changed internal design          | H                  | Design variant H (H-Series)             |
| Sealing                          | 2Z                 | Non-contact shield on both sides        |
| Cage                             | JN                 | Steel sheet metal                       |
| Tolerance class                  | PN                 | Normal (ISO 492:2023)                   |
| Dimensional / heat stabilization | SN                 | Rings dimensional stabilized up to 120° |
| Lubricant                        | Lubricating grease |                                         |
| Radial internal clearance        | CN (Group N)       | Normal internal clearance               |
| Bore type                        | Z                  | Cylindrical                             |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 55 mm       | Bore diameter                     |
| D               | 120 mm      | Outside diameter                  |
| B               | 29 mm       | Width                             |
| C <sub>r</sub>  | 66.910 N    | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 41.890 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 2.550 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 6.700 1/min | Limiting speed                    |
| n <sub>gr</sub> | 7.200 1/min | Reference speed                   |
| ≈m              | 1,38 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    |
| $D_1$      | 100,9 mm | Shoulder diameter outer ring |
| $D_2$      | 104 mm   | Caliber diameter outer ring  |
| $d_1$      | 76,1 mm  | Shoulder diameter inner ring |
| $d_2$      | 72,6 mm  | Caliber diameter inner ring  |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -20 °C | Operating temperature min. |
| $T_{\max}$ | 120 °C | Operating temperature max. |

### Calculation factors

|       |      |                    |
|-------|------|--------------------|
| $f_0$ | 13,3 | Calculation factor |
|-------|------|--------------------|

### Właściwości

|                                                                                     |                                                    |
|-------------------------------------------------------------------------------------|----------------------------------------------------|
|  | Obciążenie promieniowe                             |
|  | Obciążenie osiowe jednokierunkowe                  |
|  | Obciążenie osiowe dwukierunkowe                    |
|  | L <sub>h</sub> Smarowanie dożywotnie, bezobsługowe |
|  | Smarowanie smarem                                  |
|  | Uszczelnienie dwustronne                           |