



FAG

6024-Z

Deep groove ball bearing

Deep groove ball bearing 60...-Z, single row, shield , steel sheet metal cage

Informacje techniczne



Twoja aktualna wersja produktu

|                                  |              |                                         |
|----------------------------------|--------------|-----------------------------------------|
| Sealing                          | Z            | Non-contact shield on one Side          |
| Cage                             | JN           | Steel sheet metal                       |
| Tolerance class                  | PN           | Normal (ISO 492:2023)                   |
| Dimensional / heat stabilization | S0           | Rings dimensional stabilized up to 150° |
| Lubricant                        | Without      | Bearing not greased                     |
| Radial internal clearance        | CN (Group N) | Normal internal clearance               |
| Bore type                        | Z            | Cylindrical                             |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 120 mm      | Bore diameter                     |
| D               | 180 mm      | Outside diameter                  |
| B               | 28 mm       | Width                             |
| C <sub>r</sub>  | 88.000 N    | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 77.000 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 3.650 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 5.000 1/min | Limiting speed                    |
| n <sub>gr</sub> | 4.450 1/min | Reference speed                   |
| ≈m              | 2,059 kg    | Masa                              |



### Mounting dimensions

|              |          |                                      |
|--------------|----------|--------------------------------------|
| $d_{a\ min}$ | 128,8 mm | Minimum diameter shaft shoulder      |
| $D_{a\ max}$ | 171,2 mm | Maximum diameter of housing shoulder |
| $r_{a\ max}$ | 2 mm     | Maximum fillet radius                |

### Dimensions

|             |           |                              |
|-------------|-----------|------------------------------|
| $r_{\ min}$ | 2 mm      | Minimum chamfer dimension    |
| $D_1$       | 161,38 mm | Shoulder diameter outer ring |
| $D_2$       | 165,36 mm | Caliber diameter outer ring  |
| $d_1$       | 139,4 mm  | Shoulder diameter inner ring |

### Temperature range

|             |        |                            |
|-------------|--------|----------------------------|
| $T_{\ min}$ | -30 °C | Operating temperature min. |
| $T_{\ max}$ | 150 °C | Operating temperature max. |

### Calculation factors

|       |      |                    |
|-------|------|--------------------|
| $f_0$ | 15,8 | Calculation factor |
|-------|------|--------------------|

### Właściwości

|                                                                                     |                                   |
|-------------------------------------------------------------------------------------|-----------------------------------|
|  | Obciążenie promieniowe            |
|  | Obciążenie osiowe jednokierunkowe |
|  | Obciążenie osiowe dwukierunkowe   |
|  | Smarowanie smarem                 |
|  | Smarowanie olejem                 |
|  | Uszczelnienie jednostronne        |