



FAG

609-2Z-HLN-C3

Deep groove ball bearing

Deep groove ball bearing 60...-2Z, single row, shields, steel sheet metal cage

Informacje techniczne



Twoja aktualna wersja produktu

|                                  |                    |                                         |
|----------------------------------|--------------------|-----------------------------------------|
| Logistical code                  | HLN                | -                                       |
| 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        | C3 (Group 3)       | Internal clearance larger than CN       |
| Bore type                        | Z                  | Cylindrical                             |

Main Dimensions & Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 9 mm         | Bore diameter                     |
| D               | 24 mm        | Outside diameter                  |
| B               | 7 mm         | Width                             |
| C <sub>r</sub>  | 3.550 N      | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 1.410 N      | Basic static load rating, radial  |
| C <sub>ur</sub> | 88 N         | Fatigue load limit, radial        |
| n <sub>G</sub>  | 38.500 1/min | Limiting speed                    |
| n <sub>gr</sub> | 30.000 1/min | Reference speed                   |
| ≈m              | 0,014 kg     | Masa                              |



### Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a\ min}$ | 11 mm  | Minimum diameter shaft shoulder      |
| $D_{a\ max}$ | 22 mm  | Maximum diameter of housing shoulder |
| $r_{a\ max}$ | 0,3 mm | Maximum fillet radius                |

### Dimensions

|            |         |                              |
|------------|---------|------------------------------|
| $r_{\min}$ | 0,3 mm  | Minimum chamfer dimension    |
| $D_1$      | 19 mm   | Shoulder diameter outer ring |
| $D_2$      | 20,1 mm | Caliber diameter outer ring  |
| $d_1$      | 13,2 mm | Shoulder diameter inner ring |
| $d_2$      | 12,2 mm | Caliber diameter inner ring  |

### Temperature range

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

### Calculation factors

|       |      |                    |
|-------|------|--------------------|
| $f_0$ | 12,8 | Calculation factor |
|-------|------|--------------------|

### Właściwości

|  |                                     |
|--|-------------------------------------|
|  | Obciążenie promieniowe              |
|  | Obciążenie osiowe jednokierunkowe   |
|  | Obciążenie osiowe dwukierunkowe     |
|  | Smarowanie dożywotnie, bezobsługowe |
|  | Smarowanie smarem                   |
|  | Uszczelnienie dwustronne            |