



FAG

61809-2RZ

Deep groove ball bearing

Deep groove ball bearing 618...-2RZ, single row, shields, steel sheet metal cage

Informacje techniczne



Twoja aktualna wersja produktu

|                                  |              |                                         |
|----------------------------------|--------------|-----------------------------------------|
| Sealing                          | 2RZ          | Non-contact seal 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                        | GA14         | Ball bearing grease, low noise          |
| Radial internal clearance        | CN (Group N) | Normal internal clearance               |
| Bore type                        | Z            | Cylindrical                             |

Main Dimensions & Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 45 mm        | Bore diameter                     |
| D               | 58 mm        | Outside diameter                  |
| B               | 7 mm         | Width                             |
| C <sub>r</sub>  | 7.000 N      | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 5.900 N      | Basic static load rating, radial  |
| C <sub>ur</sub> | 400 N        | Fatigue load limit, radial        |
| n <sub>G</sub>  | 14.300 1/min | Limiting speed                    |
| n <sub>gr</sub> | 7.300 1/min  | Reference speed                   |
| ≈m              | 0,04 kg      | Masa                              |



### Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a\ min}$ | 47 mm  | Minimum diameter shaft shoulder      |
| $D_{a\ max}$ | 56 mm  | Maximum diameter of housing shoulder |
| $r_{a\ max}$ | 0,3 mm | Maximum fillet radius                |

### Dimensions

|             |          |                              |
|-------------|----------|------------------------------|
| $r_{\ min}$ | 0,3 mm   | Minimum chamfer dimension    |
| $D_1$       | 54,05 mm | Shoulder diameter outer ring |
| $D_2$       | 55,3 mm  | Caliber diameter outer ring  |
| $d_1$       | 49,1 mm  | Shoulder diameter inner ring |

### Temperature range

|             |        |                            |
|-------------|--------|----------------------------|
| $T_{\ min}$ | -20 °C | Operating temperature min. |
| $T_{\ max}$ | 100 °C | Operating temperature max. |

### Calculation factors

|       |      |                    |
|-------|------|--------------------|
| $f_0$ | 16,3 | Calculation factor |
|-------|------|--------------------|

### Właściwości

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