



FAG

685>N

Deep groove ball bearing

Deep groove ball bearing 68..., single row,  
steel sheet metal cage

Informacje techniczne



Twoja aktualna wersja produktu

|                                  |              |                                         |
|----------------------------------|--------------|-----------------------------------------|
| Version code                     | >N           | Not marked on bearing                   |
| Sealing                          | Without      | Not sealed                              |
| Cage                             | JN           | Steel sheet metal                       |
| Tolerance class                  | PN           | Normal (ISO 492:2023)                   |
| Dimensional / heat stabilization | SN           | Rings dimensional stabilized up to 120° |
| Lubricant                        | Without      | Bearing not greased                     |
| Radial internal clearance        | CN (Group N) | Normal internal clearance               |
| Bore type                        | Z            | Cylindrical                             |

Main Dimensions & Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 5 mm         | Bore diameter                     |
| D               | 11 mm        | Outside diameter                  |
| B               | 3 mm         | Width                             |
| C <sub>r</sub>  | 760 N        | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 280 N        | Basic static load rating, radial  |
| C <sub>ur</sub> | 17,5 N       | Fatigue load limit, radial        |
| n <sub>G</sub>  | 84.000 1/min | Limiting speed                    |
| n <sub>gr</sub> | 41.000 1/min | Reference speed                   |
| ≈m              | 1,16 g       | Masa                              |



Mounting dimensions

|             |         |                                      |
|-------------|---------|--------------------------------------|
| $d_{a\min}$ | 5,8 mm  | Minimum diameter shaft shoulder      |
| $D_{a\max}$ | 10,2 mm | Maximum diameter of housing shoulder |
| $r_{a\max}$ | 0,15 mm | Maximum fillet radius                |

Dimensions

|            |         |                              |
|------------|---------|------------------------------|
| $r_{\min}$ | 0,15 mm | Minimum chamfer dimension    |
| $D_1$      | 9,2 mm  | Shoulder diameter outer ring |
| $d_1$      | 6,8 mm  | Shoulder diameter inner ring |

Temperature range

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

Calculation factors

|       |      |                    |
|-------|------|--------------------|
| $f_0$ | 13,9 | Calculation factor |
|-------|------|--------------------|

Właściwości

-  Obciążenie promieniowe
-  Obciążenie osiowe jednokierunkowe
-  Obciążenie osiowe dwukierunkowe
-  Smarowanie smarem
-  Smarowanie olejem
-  Bez uszczelnienia