

**FAG****S685-2Z>N**

Deep groove ball bearing

Deep groove ball bearing S68..-2Z, corrosion-resistant materials, single row, shields, steel sheet metal cage

Technical information



Your current product variant

| | | |
|----------------------------------|--------------------|---|
| Version code | >N | Not marked on bearing |
| Material Bearing | S | Stainless steel |
| 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 | 5 mm | Bore diameter |
| D | 11 mm | Outside diameter |
| B | 5 mm | Width |
| C _r | 760 N | Basic dynamic load rating, radial |
| C _{0r} | 280 N | Basic static load rating, radial |
| C _{ur} | 17,5 N | Fatigue load limit, radial |
| n _G | 71.000 1/min | Limiting speed |
| n _{gr} | 46.500 1/min | Reference speed |
| ≈m | 1,93 g | Weight |



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 | 9,15 mm | Shoulder diameter outer ring |
| D_2 | 9,7 mm | Caliber diameter outer ring |
| d_1 | 6,7 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 |
|-------|------|--------------------|

Characteristics

| | |
|---|--|
|  | Radial load |
|  | Axial load in one direction |
|  | Axial load in two directions |
|  | Lifetime lubrication, freedom from maintenance |
|  | Grease Lubrication |
|  | Sealed on both sides |
|  | Protected against rust |