

**FAG****2214-2RS-TVH**

Self-aligning ball bearing

Self-aligning ball bearing 22..-2RS-TVH,
seals, plastic cage

Technical information



Your current product variant

| | | |
|---------------------------|--------------|--|
| Bore type | Z | Cylindrical |
| Sealing | 2RS | Contact seal on both sides |
| Cage | TVH | Solid cage made of glass-fiber reinforced polyamide PA66 |
| Tolerance class | PN | Normal (ISO 492:2023) |
| Radial internal clearance | CN (Group N) | Normal internal clearance |
| Lubricant | GA13 | Ball bearing and insert bearing grease |

Main Dimensions & Performance Data

| | | |
|-----------------|-------------|-----------------------------------|
| d | 70 mm | Bore diameter |
| D | 125 mm | Outside diameter |
| B | 31 mm | Width |
| C _r | 35,000 N | Basic dynamic load rating, radial |
| C _{0r} | 13,800 N | Basic static load rating, radial |
| C _{ur} | 880 N | Fatigue load limit, radial |
| n _G | 3,150 1/min | Limiting speed |
| ≈m | 1.52 kg | Weight |

Mounting dimensions

| | | |
|--------------------|--------|--------------------------------------|
| d _{a min} | 79 mm | Minimum diameter shaft shoulder |
| D _{a max} | 116 mm | Maximum diameter of housing shoulder |
| r _{a max} | 1.5 mm | Maximum fillet radius |



Dimensions

| | | |
|------------|------------|------------------------------|
| r_{\min} | 1.5 mm | Minimum chamfer dimension |
| D_1 | 106.083 mm | Shoulder diameter outer ring |
| D_2 | 110.75 mm | Caliber diameter outer ring |
| d_1 | 87.2 mm | Shoulder diameter inner ring |
| d_2 | 84.7 mm | Caliber diameter inner ring |

Temperature range

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

Calculation factors

| | | |
|-------|------|--|
| e | 0.19 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y_1 | 3.37 | Dynamic axial load factor |
| Y_2 | 5.22 | Dynamic axial load factor |
| Y_0 | 3.53 | Static axial load 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



Static angular error and misalignment



Dynamic angular error and misalignment