

**FAG****2308-TVH**

Self-aligning ball bearing

Self-aligning ball bearing 23..-TVH, plastic cage

Technical information



Your current product variant

| | | |
|---------------------------|--------------|--|
| Bore type | Z | Cylindrical |
| Sealing | Without | Not sealed |
| 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 | Without | Bearing not greased |

Main Dimensions & Performance Data

| | | |
|-----------------|-------------|-----------------------------------|
| d | 40 mm | Bore diameter |
| D | 90 mm | Outside diameter |
| B | 33 mm | Width |
| C _r | 46.000 N | Basic dynamic load rating, radial |
| C _{0r} | 13.500 N | Basic static load rating, radial |
| C _{ur} | 860 N | Fatigue load limit, radial |
| n _G | 7.900 1/min | Limiting speed |
| n _{gr} | 8.700 1/min | Reference speed |
| ≈m | 0,913 kg | Weight |

Mounting dimensions

| | | |
|--------------------|--------|--------------------------------------|
| d _{a min} | 49 mm | Minimum diameter shaft shoulder |
| D _{a max} | 81 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 | 74,51 mm | Shoulder diameter outer ring |
| d_1 | 53,7 mm | Shoulder diameter inner ring |

Temperature range

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

Calculation factors

| | | |
|-------|------|--|
| e | 0,43 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y_1 | 1,46 | Dynamic axial load factor |
| Y_2 | 2,25 | Dynamic axial load factor |
| Y_0 | 1,52 | Static axial load factor |

Characteristics

| | |
|---|--|
|  | Radial load |
|  | Axial load in one direction |
|  | Axial load in two directions |
|  | Grease Lubrication |
|  | Oil Lubrication |
|  | Not sealed |
|  | Static angular error and misalignment |
|  | Dynamic angular error and misalignment |