

**FAG****6308-2RSR-TVH-C4**

Deep groove ball bearing

Deep groove ball bearing 63...-2RSR-TVH, single row, seals, plastic cage

Technical information

**Your current product variant**

| | | |
|----------------------------------|--------------|---|
| Sealing | 2RSR | Contact seal on both sides |
| Cage | TVH | Solid cage made of glass-fiber reinforced polyamid PA66 |
| Tolerance class | PN | Normal (ISO 492:2023) |
| Dimensional / heat stabilization | SN | Rings dimensional stabilized up to 120° |
| Lubricant | GA13 | Ball bearing and insert bearing grease |
| Radial internal clearance | C4 (Group 4) | Internal clearance larger than C3 |
| Bore type | Z | Cylindrical |

Main Dimensions & Performance Data

| | | |
|-------------|-------------|-----------------------------------|
| d | 40 mm | Bore diameter |
| D | 90 mm | Outside diameter |
| B | 23 mm | Width |
| C_r | 45.500 N | Basic dynamic load rating, radial |
| C_{0r} | 25.000 N | Basic static load rating, radial |
| C_{ur} | 1.690 N | Fatigue load limit, radial |
| n_G | 4.800 1/min | Limiting speed |
| $\approx m$ | 0,66 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 | 74,64 mm | Shoulder diameter outer ring |
| D_2 | 76,5 mm | Caliber diameter outer ring |
| d_1 | 55,55 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 | 13 | 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