

**FAG****4218-B-TVH**

Deep groove ball bearing

Deep groove ball bearing 42...-B-TVH, double row, plastic cage

Technical information



Your current product variant

| | | |
|----------------------------------|--------------------|---|
| Design variant | B | Bearing without filling slot |
| Tolerance class | PN | Normal (ISO 492:2023) |
| Cage | TVH | Solid cage made of glass-fiber reinforced polyamid PA66 |
| Lubricant | Lubricating grease | |
| Dimensional / heat stabilization | S0 | Rings dimensional stabilized up to 150° |
| Radial internal clearance | CN (Group N) | Normal internal clearance |

Main Dimensions & Performance Data

| | | |
|-------------|-------------|-----------------------------------|
| d | 90 mm | Bore diameter |
| D | 160 mm | Outside diameter |
| B | 40 mm | Width |
| C_r | 113.000 N | Basic dynamic load rating, radial |
| C_{0r} | 123.000 N | Basic static load rating, radial |
| C_{ur} | 6.100 N | Fatigue load limit, radial |
| n_G | 3.900 1/min | Limiting speed |
| n_{gr} | 4.100 1/min | Reference speed |
| $\approx m$ | 3,15 kg | Weight |

Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 101 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 149 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2 mm | Maximum fillet radius |



Dimensions

| | | |
|------------|----------|------------------------------|
| r_{\min} | 2 mm | Minimum chamfer dimension |
| D_1 | 140,2 mm | Shoulder diameter outer ring |
| d_1 | 117,6 mm | Shoulder diameter inner ring |






Temperature range

| | | |
|------------|--------|----------------------------|
| T_{\min} | -20 °C | Operating temperature min. |
| T_{\max} | 120 °C | Operating temperature max. |

Calculation factors

| | | |
|-------|------|--------------------|
| f_0 | 15,5 | Calculation factor |
|-------|------|--------------------|

Characteristics

-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Grease Lubrication
-  Not sealed