

**71816-TN**

Angular contact ball bearing

Angular contact ball bearing 718...-B-TVP,
single row, plastic cage

Technical information

**Your current product variant**

| | | |
|----------------------------------|---------|---|
| Design variant | B | B |
| Sealing | Without | Not sealed |
| Cage | TVP | Solid cage made of glass-fiber reinforced polyamid PA66 |
| Tolerance class | PN | Normal (ISO 492:2023) |
| Dimensional / heat stabilization | S0 | Rings dimensional stabilized up to 150° |
| Lubricant | Without | Bearing not greased |

Main Dimensions & Performance Data

| | | |
|-------------|-------------|-----------------------------------|
| d | 80 mm | Bore diameter |
| D | 100 mm | Outside diameter |
| B | 10 mm | Width |
| C_r | 16.500 N | Basic dynamic load rating, radial |
| C_{0r} | 19.100 N | Basic static load rating, radial |
| C_{ur} | 1.240 N | Fatigue load limit, radial |
| n_G | 8.000 1/min | Limiting speed |
| n_{gr} | 3.900 1/min | Reference speed |
| $\approx m$ | 0,152 kg | Weight |



Mounting dimensions

| | | |
|---------------|---------|--------------------------------------|
| $d_{a \min}$ | 85,2 mm | Minimum diameter of shaft shoulder |
| $D_{a \max}$ | 96,8 mm | Maximum diameter of housing shoulder |
| $D_{b \max}$ | 98 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 0,6 mm | Maximum fillet radius of shaft |
| $r_{a1 \max}$ | 0,3 mm | Maximum fillet radius of housing |

Dimensions

| | | |
|--------------|---------|---|
| r_{\min} | 0,6 mm | Minimum chamfer dimension |
| $r_{1 \min}$ | 0,3 mm | Minimum chamfer dimension |
| D_1 | 92 mm | Shoulder diameter on outer ring wide side face |
| d_1 | 88 mm | Shoulder diameter on inner ring wide side face |
| a | 42,8 mm | Distance between the apexes of the pressure cones |
| α | 40 ° | Contact angle |

Temperature range

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

Characteristics

-  Radial load
-  Axial load in one direction
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed