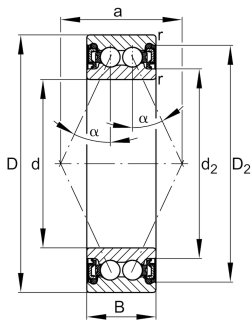


**3816-2Z**

Angular contact ball bearing

Angular contact ball bearing 38..-B-2RZ-TVH,
double row, shields, plastic cage

Technical information

**Your current product variant**

| | | |
|----------------------------------|------|--|
| Design variant | B | Bearing without filling slot |
| Sealing | 2RZ | Non-contact seal on both sides |
| Cage | TVH | Solid cage made of glass-fiber reinforced polyamide 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 |
| Axial internal clearance | CN | Group N (CN) |

Main Dimensions & Performance Data

| | | |
|-------------|-------------|-----------------------------------|
| d | 80 mm | Bore diameter |
| D | 100 mm | Outside diameter |
| B | 15 mm | Width |
| C_r | 19.200 N | Basic dynamic load rating, radial |
| C_{0r} | 24.800 N | Basic static load rating, radial |
| C_{ur} | 1.430 N | Fatigue load limit, radial |
| n_G | 5.100 1/min | Limiting speed |
| n_{gr} | 3.650 1/min | Reference speed |
| $\approx m$ | 0,23 kg | Weight |



Mounting dimensions

| | | |
|--------------|---------|--------------------------------------|
| $d_{a \min}$ | 83,2 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 96,8 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 0,6 mm | Maximum fillet radius |

Dimensions

| | | |
|------------|----------|---|
| r_{\min} | 0,6 mm | Minimum chamfer dimension |
| D_1 | 93,47 mm | Shoulder diameter outer ring |
| D_2 | 95,33 mm | Caliber diameter outer ring |
| d_1 | 86,7 mm | Shoulder diameter inner ring |
| d_2 | 85,53 mm | Caliber diameter inner ring |
| a | 47,8 mm | Distance between the apexes of the pressure cones |
| α | 25 ° | Contact angle |

Temperature range

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

Characteristics

| | |
|---|--|
|  | Radial load |
|  | Axial load in one direction |
|  | Axial load in two directions |
|  | Lifetime lubrication, freedom from maintenance |
|  | Grease Lubrication |
|  | Sealed on both sides |