

**FAG****3316-BD-XL-2HRS-TVH**

Angular contact ball bearing

Angular contact ball bearing 33..-BD-XL-2HRS-TVH, double row, X-life, seals, plastic cage

**X-life**

Technical information



Your current product variant

| | | |
|----------------------------------|------|----------------------------------------------------------|
| Design variant | B | Bearing without filling slot |
| Changed internal design | D | D |
| Sealing | 2HRS | Contact seal on both sides |
| Cage | TVH | Solid cage made of glass-fiber reinforced polyamide PA66 |
| Tolerance class | P6 | Class 6 (ISO 492:2023) |
| Dimensional / heat stabilization | S0 | Rings dimensional stabilized up to 150° |
| 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 | 170 mm | Outside diameter |
| B | 68,3 mm | Width |
| C _r | 199.000 N | Basic dynamic load rating, radial |
| C _{0r} | 180.000 N | Basic static load rating, radial |
| C _{ur} | 11.100 N | Fatigue load limit, radial |
| n _G | 2.950 1/min | Limiting speed |
| ≈m | 6,24 kg | Weight |



Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 92 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 158 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2,1 mm | Maximum fillet radius |







Dimensions

| | | |
|------------|-----------|---------------------------------------------------|
| r_{\min} | 2,1 mm | Minimum chamfer dimension |
| D_1 | 148,04 mm | Shoulder diameter outer ring |
| D_2 | 151,89 mm | Caliber diameter outer ring |
| d_1 | 116,67 mm | Shoulder diameter inner ring |
| d_2 | 114 mm | Caliber diameter inner ring |
| a | 100,8 mm | Distance between the apexes of the pressure cones |
| α | 30 ° | 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 |