

**FAG****X-life****3209-BD-XL-TVH-L285-C3**

Angular contact ball bearing

Angular contact ball bearing 32.-BD-XL-TVH, double row, X-life, plastic cage

Technical information

**Your current product variant**

| | | |
|----------------------------------|---------|--|
| Design variant | B | Bearing without filling slot |
| Changed internal design | D | D |
| Type of Sealing | Without | Not sealed |
| Cage | TVH | Solid cage made of glass-fiber reinforced polyamide PA66 |
| Tolerance class | P6 | Class6 (P6), better than PN |
| Dimensional / heat stabilization | SN | Rings dimensional stabilized up to 120° |
| Lubricant | L285 | Grease (L285/customer specific) |
| Axial internal clearance | C3 | Group 3 (C3), bigger than CN |

Main Dimensions & Performance Data

| | | |
|-----------------|-------------|-----------------------------------|
| d | 45 mm | Bore diameter |
| D | 85 mm | Outside diameter |
| B | 30,2 mm | Width |
| C _r | 50.000 N | Basic dynamic load rating, radial |
| C _{0r} | 39.000 N | Basic static load rating, radial |
| C _{ur} | 2.700 N | Fatigue load limit, radial |
| n _G | 8.300 1/min | Limiting speed |
| n _{gr} | 8.400 1/min | Reference speed |
| m | 0,61 kg | Weight |



Mounting dimensions

| | | |
|--------------|-------|--------------------------------------|
| $d_{a \min}$ | 52 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 78 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1 mm | Maximum fillet radius |

Dimensions

| | | |
|------------|----------|---|
| r_{\min} | 1,1 mm | Minimum chamfer dimension |
| D_1 | 75,1 mm | Shoulder diameter outer ring |
| D_2 | 78,09 mm | Caliber diameter outer ring |
| d_1 | 59,9 mm | Shoulder diameter inner ring |
| d_2 | 57,73 mm | Caliber diameter inner ring |
| a | 50,3 mm | Distance between the apexes of the pressure cones |
| α | 30 ° | Contact angle |

Temperature range

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

Characteristics

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