

**FAG****3205-BD-XL-2HRS-C3**

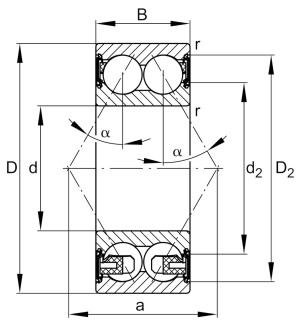
Angular contact ball bearing



Angular contact ball bearing 32..-BD-XL-2HRS, double row, X-life, seals, steel sheet metal 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 | JH | Steel sheet metal |
| Tolerance class | P6 | Class 6 (ISO 492:2023) |
| Dimensional / heat stabilization | SN | Rings dimensional stabilized up to 120° |
| Lubricant | GA13 | Ball bearing and insert bearing grease |
| Axial internal clearance | C3 | Group 3 (C3), bigger than CN |

Main Dimensions & Performance Data

| | | |
|-----------------|--------------|-----------------------------------|
| d | 25 mm | Bore diameter |
| D | 52 mm | Outside diameter |
| B | 20,6 mm | Width |
| C _r | 22.000 N | Basic dynamic load rating, radial |
| C _{0r} | 15.200 N | Basic static load rating, radial |
| C _{ur} | 1.050 N | Fatigue load limit, radial |
| n _G | 10.700 1/min | Limiting speed |
| ≈m | 0,172 kg | Weight |



Mounting dimensions

| | | |
|--------------|---------|--------------------------------------|
| $d_{a \min}$ | 30,6 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 46,4 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1 mm | Maximum fillet radius |

Dimensions

| | | |
|------------|----------|---|
| r_{\min} | 1 mm | Minimum chamfer dimension |
| D_1 | 45,1 mm | Shoulder diameter outer ring |
| D_2 | 47,62 mm | Caliber diameter outer ring |
| d_1 | 35,8 mm | Shoulder diameter inner ring |
| d_2 | 34,23 mm | Caliber diameter inner ring |
| a | 30,8 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 |