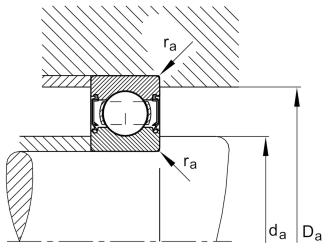
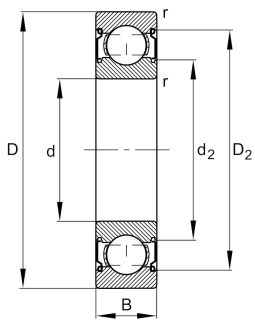


**FAG****HC6305-C-2Z-L207-C3>V**

Deep groove ball bearing

Deep groove ball bearing HC63...-C-2Z,
Hybrid bearing, single row, Generation C,
shields, steel sheet metal cage

Technical information



Your current product variant

| | | |
|----------------------------------|--------------|---|
| Version code | >V | Not marked on bearing |
| Material Bearing | HC | Hybrid bearing, rolling elements ceramic, bearing rings made of steel |
| Changed internal design | C | GenerationC |
| Sealing | 2Z | Non-contact shield on both sides |
| Cage | JN | Steel sheet metal |
| Tolerance class | P6 | Class 6 (ISO 492:2023) |
| Dimensional / heat stabilization | SN | Rings dimensional stabilized up to 120° |
| Lubricant | L207 | Low noise high-temperature grease, interchangeable with grease L069 |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN |
| Bore type | Z | Cylindrical |



Main Dimensions & Performance Data

| | | |
|-----------------|--------------|-----------------------------------|
| d | 25 mm | Bore diameter |
| D | 62 mm | Outside diameter |
| B | 17 mm | Width |
| C _r | 26.500 N | Basic dynamic load rating, radial |
| C _{0r} | 11.000 N | Basic static load rating, radial |
| C _{ur} | 580 N | Fatigue load limit, radial |
| n _G | 18.100 1/min | Limiting speed |
| n _{gr} | 13.500 1/min | Reference speed |
| m | 0,19 kg | Weight |

Mounting dimensions

| | | |
|--------------------|-------|--------------------------------------|
| d _{a min} | 32 mm | Minimum diameter shaft shoulder |
| D _{a max} | 55 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 | 51,55 mm | Shoulder diameter outer ring |
| D ₂ | 53,8 mm | Caliber diameter outer ring |
| d ₁ | 35,45 mm | Shoulder diameter inner ring |
| d ₂ | 34,12 mm | Caliber diameter inner ring |

Temperature range








| | | |
|------------------|--------|----------------------------|
| T _{min} | -30 °C | Operating temperature min. |
| T _{max} | 120 °C | Operating temperature max. |

Calculation factors

| | | |
|----------------|------|--------------------|
| f ₀ | 11,9 | Calculation factor |
|----------------|------|--------------------|



Characteristics

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