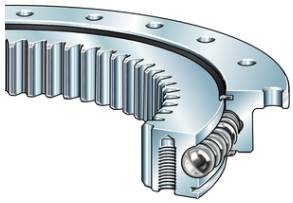
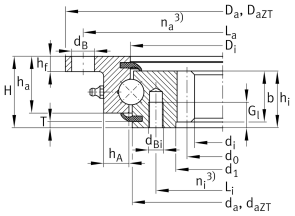


# VLI200414-N-VSP

Slewing ring, 4 point contact bearing, internal gear teeth

Four point contact bearings, light series 20,
internal gear teeth, lip seals on both sides

## Technical information




### Your current product variant

| | | |
|---|---|---|
| Gearing | N | Normalized gear teeth on bearing ring |
| Preload class | VSP | Bearing with preload |

### Main Dimensions & Performance Data

| | | |
|---|---|---|
| $d_1$ | 325 mm | Bore Diameter |
| H | 56 mm | Height |
| $D_a$ | 518 mm | Outside Diameter |
| | -0,5 mm | Outside diameter lower tolerance |
| | 0 mm | Outside diameter upper tolerance |
| $h_f$ | 12 mm | Height of flange |
| $h_a$ | 44,5 mm | Width outer ring |
| $h_i$ | 44,5 mm | Width inner ring |
| ≈m | 27,9 kg | Weight |

## Dimensions

| | | |
|---|---|---|
| $D_i$ | 415,5 mm | Inner diameter outer ring |
| | 0,5 mm | Inner diameter outer ring upper tolerance |
| | 0 mm | Inner diameter outer ring lower tolerance |
| $L_a$ | 490 mm | Pitchcircle diameter fixing holes outer ring |
| $n_a$ | 8 | Number of fixing holes in outer ring |
| $d_B$ | 18 mm | Fixing bore |
| $d_a$ | 412,5 mm | Outside diameter inner ring |
| | 0 mm | Outside diameter inner ring upper tolerance |
| | -0,5 mm | Outside diameter inner ring lower tolerance |
| $L_i$ | 375 mm | Pitchcircle diameter fixing holes inner ring |
| $d_{Bi}$ | M12 | Tread fixing bore |
| $G_l$ | 20 mm | Thread depth fixing hole |
| $n_i$ | 12 | Number of fixing holes in inner ring |
| $F_{r\ zul}$ | 49.600 N | Max. radial load fixing screws (friction locking) |
| m | 5 mm | Modul of gearing |
| z | 67 | Number of teeth |
| $d_0$ | 335 mm | Pitch circle diameter gearing |
| b | 40 mm | Width gearing |
| $d_1$ | 350 mm | Diameter turning inner ring |
| | 0,5 mm | Diameter turning inner ring upper tolerance |
| | 0 mm | Diameter turning inner ring lower tolerance |
| $h_A$ | 20 mm | Ring cross section |
| $F_{z\ norm}$ | 17.700 N | Max. tooth force root fatigue strenght (at a shock factor of 1,2) |
| $F_{z\ max}$ | 26.200 N | Max. tooth force against tooth fracture (at a shock factor of 1,35) |

## Temperature range

| | | |
|---|---|---|
| $T_{min}$ | -25 °C | Operating temperature min. |
| $T_{max}$ | 80 °C | Operating temperature max. |

## Calculation factors

| | | |
|---|---|---|
| $C_a$ | 137.000 N | Basic dynamic load rating, axial |
| $C_{0a}$ | 295.000 N | Basic static load rating, axial |
| $C_r$ | 124.000 N | Basic dynamic load rating, radial |
| $C_{0r}$ | 110.000 N | Basic static load rating, radial |

## Characteristics

Radial load

Axial load in one direction

Axial load in two directions


Moments about all axes


Grease Lubrication


Sealed on both sides


Large bearing