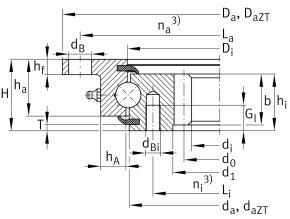


**VLI200414-N**

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 |
| Radial internal clearance | Standard_VL | Standard radial clearance 0 to 0,5 and axial tilting clearance 0 to 0,7 |

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 |
| $\approx m$ | 27,3 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_i | 20 mm | Thread depth fixing hole |
| n_i | 12 | Number of fixing holes in inner ring |
| $F_{r\text{ zul}}$ | 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 |
| $F_{z\text{ norm}}$ | 17.700 N | Max. tooth force root fatigue strenght (at a shock factor of 1,2) |
| $F_{z\text{ max}}$ | 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