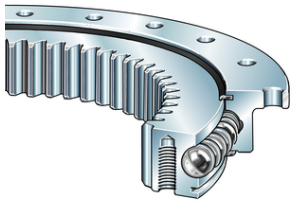
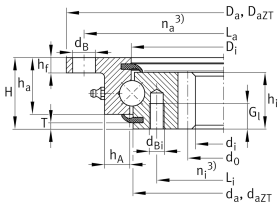


VLI200944-N-RL1

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	RL1	Radial clearance 0 to 0,1; axial tilting clearance 0 to 0,21

Main Dimensions & Performance Data

d_1	840 mm	Bore Diameter
H	56 mm	Height
D_a	1.048 mm	Outside Diameter
	-0,7 mm	Outside diameter lower tolerance
	0 mm	Outside diameter upper tolerance
	-IT8	Diameter centring outer ring 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	69,55 kg	Weight

Dimensions

D_i	945,5 mm	Inner diameter outer ring
	0,7 mm	Inner diameter outer ring upper tolerance
	0 mm	Inner diameter outer ring lower tolerance
L_a	1.020 mm	Pitchcircle diameter fixing holes outer ring
n_a	16	Number of fixing holes in outer ring
d_B	18 mm	Fixing bore
d_a	942,5 mm	Outside diameter inner ring
	0 mm	Outside diameter inner ring upper tolerance
	-0,7 mm	Outside diameter inner ring lower tolerance
L_i	905 mm	Pitchcircle diameter fixing holes inner ring
d_{Bi}	M12	Tread fixing bore
G_l	20 mm	Thread depth fixing hole
n_i	22	Number of fixing holes in inner ring
$F_{r\ zul}$	90.900 N	Max. radial load fixing screws (friction locking)
m	8 mm	Modul of gearing
z	107	Number of teeth
d_0	856 mm	Pitch circle diameter gearing
h_A	20 mm	Ring cross section
$F_{z\ norm}$	31.400 N	Max. tooth force root fatigue strenght (at a shock factor of 1,2)
$F_{z\ max}$	46.700 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	188.000 N	Basic dynamic load rating, axial
C_{0a}	670.000 N	Basic static load rating, axial
C_r	170.000 N	Basic dynamic load rating, radial
C_{0r}	250.000 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