



VSI200414-N

Slewing ring, 4 point contact bearing, internal gear teeth

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Technical information



Your current product variant

Gearing	N	Normalized gear teeth on bearing ring
Radial internal clearance	Standard_SL	Standard radial clearance 0 to 0,3 and axial tilting clearance 0 to 0,53

Main Dimensions & Performance Data

d_1	325 mm	Bore Diameter
H	56 mm	Height
D_a	486 mm	Outside Diameter
	-0,5 mm	Outside diameter lower tolerance
	0 mm	Outside diameter upper tolerance
h_a	44,5 mm	Width outer ring
h_i	44,5 mm	Width inner ring
$\approx m$	31 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	460 mm	Pitchcircle diameter fixing holes outer ring
n_a	24	Number of fixing holes in outer ring
d_B	14 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	24	Number of fixing holes in inner ring
$F_{r\text{ zul}}$	99.100 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
$F_{z\text{ norm}}$	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}	660.000 N	Basic static load rating, axial
C_r	124.000 N	Basic dynamic load rating, radial
C_{0r}	305.000 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