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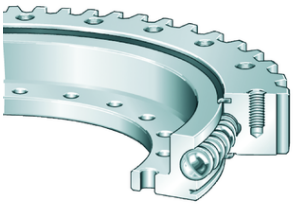
SCHAEFFLER



VLA200944-N

Slewing ring, 4 point contact bearing, external gear teeth

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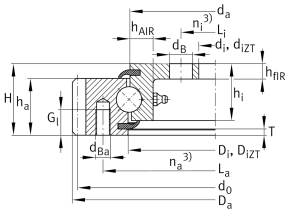
Technical information



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_i	834 mm	Bore Diameter
	0,7 mm	Bore diameter upper tolerance
	0 mm	Bore diameter lower tolerance
$h_{f\,IR}$	12 mm	Height of flange
H	56 mm	Height
D_a	1.046,1 mm	Outside Diameter
t	12 mm	Length centering inner ring
h_a	44,5 mm	Width outer ring
h_i	44,5 mm	Height of inner ring
≈m	70,32 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
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
n_i	20	Number of fixing holes in inner ring
L_i	862 mm	Pitchcircle diameter fixing holes inner ring
d_B	18 mm	Fixing bore
n_a	20	Number of fixing holes in outer ring
L_a	985 mm	Pitchcircle diameter fixing holes outer ring
d_{Ba}	M12	Tread fixing bore
G_l	20 mm	Thread depth fixing hole
h_{AIR}	20 mm	Ring cross section
$F_{r\ zul}$	82.600 N	Max. radial load fixing screws (friction locking)
d_0	1.032 mm	Pitch circle diameter gearing
m	8 mm	Modul of gearing
z	129	Number of teeth
$F_{z\ norm}$	28.300 N	Max. tooth force root fatigue strenght (at a shock factor of 1,2)
$F_{z\ max}$	42.000 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