

**ZKLN50110-2Z-XL**

Axial angular contact ball bearing

Axial angular contact ball bearings
ZKLN..-2Z, double direction, gap seals on both sides

X-life

Technical information



Your current product variant

Sealing	2Z	Minimal gap seal on both sides
Tolerance class	Standard	

Main Dimensions & Performance Data

d	50 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0,005 mm	Bore diameter lower tolerance
D	110 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0,01 mm	Outside diameter lower tolerance
B	54 mm	Width
	0 mm	Width upper tolerance
	-0,25 mm	Width lower tolerance
C _a	125.000 N	Basic dynamic load rating, axial
C _{0a}	250.000 N	Basic static load rating, axial
C _{ua}	15.200 N	Fatigue load limit, axial
n _G Grease	3.500 1/min	Limiting speed for grease lubrication
n _g	2.500 1/min	Thermally safe operating speed
M _R	1,3 Nm	Bearing frictional torque
≈m	2,421 kg	Weight



Mounting dimensions

$D_{a \max}$	98 mm	Maximum diameter of housing
$d_{a \min}$	63 mm	Minimum diameter shaft

Dimensions

d_1	80 mm	Rib diameter inner ring
r_{\min}	0,6 mm	Minimum chamfer dimension
$r_{1 \min}$	0,6 mm	Minimum chamfer dimension
α	60 °	Contact angle

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	120 °C	Operating temperature max.

Additional information

c_{aL}	1.400 N/μm	Rigidity axial
c_{kL}	1.500 Nm/mrad	Tilting rigidity
M_m	15,2 kg*cm ²	Mass moment of inertia
	2,5 μm	Axial runout
	ZMA50/75	Recommended INA precision locknut for radial locking
	AM50	Recommended INA precision locknut for axial locking
M_A	150 Nm	Tightening torque for the recommended INA precision locknut
	28.451 N	Required locknut force axial



Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Lifetime lubrication, freedom from maintenance



Grease Lubrication



Sealed on both sides