

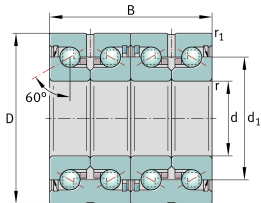
ZKLN5090-2RS-2AP-XL

Axial angular contact ball bearing

Axial angular contact ball bearings
ZKLN..-2RS-2AP-XL, matched pair, double
direction, lip seals on both sides

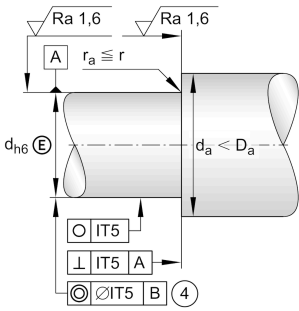
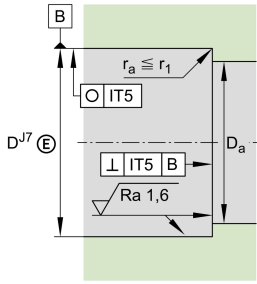
X-life

Technical information



Your current product variant

Sealing	2RS	Contact lip seals on both sides
Tolerance class	Standard	
Number of bearings	2AP	Axial angular contact ball bearings, matched pair



Main Dimensions & Performance Data

d	50 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0,005 mm	Bore diameter lower tolerance
D	90 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0,01 mm	Outside diameter lower tolerance
B	68 mm	Width
	0 mm	Width upper tolerance
	-0,5 mm	Width lower tolerance
C _a	83.000 N	Basic dynamic load rating, axial
C _{0a}	250.000 N	Basic static load rating, axial
C _{ua}	15.300 N	Fatigue load limit, axial
n _{G Grease}	3.200 1/min	Limiting speed for grease lubrication
n _g	1.500 1/min	Thermally safe operating speed
M _R	1,35 Nm	Bearing frictional torque
≈m	1,842 kg	Weight

Mounting dimensions

D _{a max}	82 mm	Maximum diameter of housing
d _{a min}	63 mm	Minimum diameter shaft

Dimensions

d ₁	72 mm	Rib diameter inner ring
r _{min}	0,3 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}	2.200 N/ μ m	Rigidity axial
c_{kL}	2.250 Nm/mrad	Tilting rigidity
M_m	10,48 kg*cm ²	Mass moment of inertia
	2,5 μ m	Axial runout
	ZMA50/75	Recommended INA precision locknut for radial locking
	AM50	Recommended INA precision locknut for axial locking
M_A	85 Nm	Tightening torque for the recommended INA precision locknut
	16.280 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