

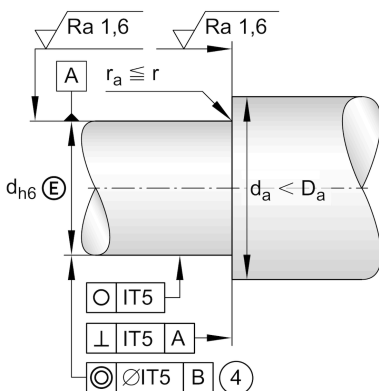
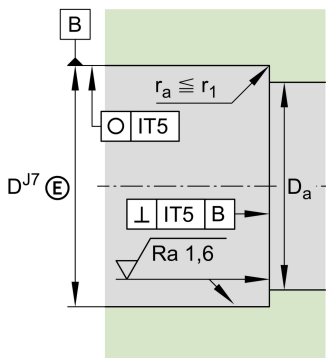
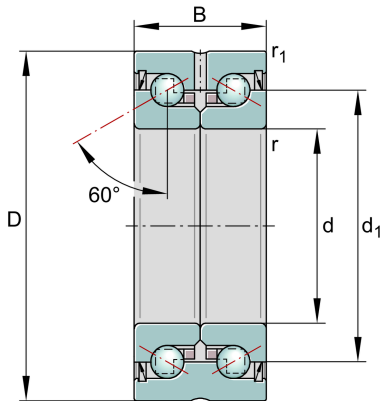
ZKLN5090-2RS-PE

Axial angular contact ball bearing

Schaeffler ID:
0033352320000

Axial angular contact ball bearings
ZKLN..-2RS-PE, Increased tolerances,
double direction, lip seals on both sides

Technical information



Main Dimensions & Performance Data

d	50 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0.01 mm	Bore diameter lower tolerance
D	90 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0.015 mm	Outside diameter lower tolerance
B	34 mm	Width
	0 mm	Width upper tolerance
	-0.25 mm	Width lower tolerance
C _a	46,500 N	Basic dynamic load rating, axial
C _{0a}	126,000 N	Basic static load rating, axial
C _{ua}	5,800 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	0.9 Nm	Bearing frictional torque
≈m	0.95 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}	1,250 N/ μ m	Rigidity axial
c_{kL}	1,000 Nm/mrad	Tilting rigidity
M_m	5.24 kg*cm ²	Mass moment of inertia
	5 μ m	Axial runout
	ZM50	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