

ZKLN3062-2RS-2AP-XL

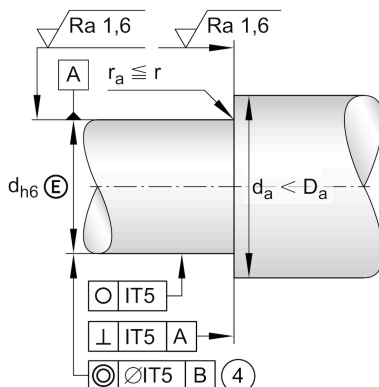
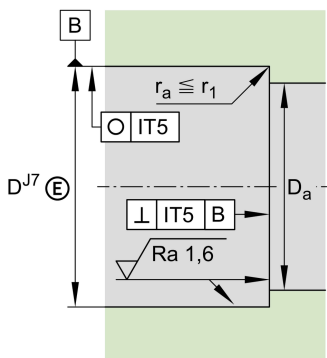
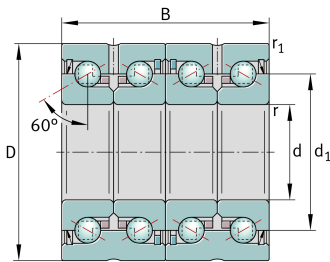
Axial angular contact ball bearing

Schaeffler ID:
0015790700000

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

X-life

Technical information



Main Dimensions & Performance Data

d	30 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0.005 mm	Bore diameter lower tolerance
D	62 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0.01 mm	Outside diameter lower tolerance
B	56 mm	Width
	0 mm	Width upper tolerance
	-0.5 mm	Width lower tolerance
C_a	52,000 N	Basic dynamic load rating, axial
C_{0a}	127,000 N	Basic static load rating, axial
C_{ua}	7,700 N	Fatigue load limit, axial
$n_{G \text{ Grease}}$	5,000 1/min	Limiting speed for grease lubrication
n_g	2,200 1/min	Thermally safe operating speed
M_R	0.75 Nm	Bearing frictional torque
$\approx m$	0.799 kg	Weight

Mounting dimensions

$D_{a \text{ max}}$	53 mm	Maximum diameter of housing
$d_{a \text{ min}}$	40 mm	Minimum diameter shaft

Dimensions

d_1	45.5 mm	Rib diameter inner ring
r_{min}	0.3 mm	Minimum chamfer dimension
$r_{1 \text{ min}}$	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}	1,500 N/μm	Rigidity axial
c_{kL}	620 Nm/mrad	Tilting rigidity
M_m	1.46 kg*cm ²	Mass moment of inertia
	2.5 μm	Axial runout
	ZMA30/52	Recommended INA precision locknut for radial locking
	AM30	Recommended INA precision locknut for axial locking
M_A	32 Nm	Tightening torque for the recommended INA precision locknut
	9,947 N	Required locknut force axial