

ZKLN2052-2RS-XL

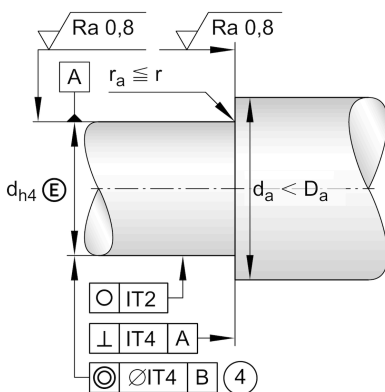
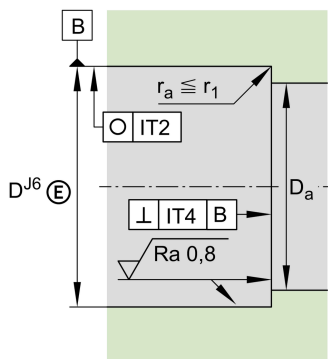
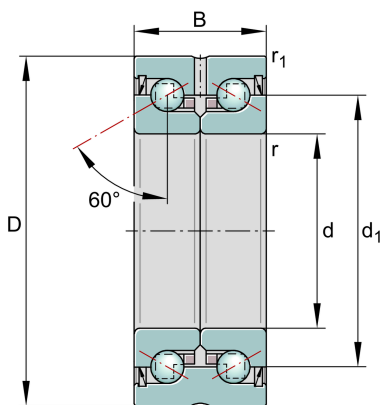
Axial angular contact ball bearing

Schaeffler ID:
0016325310000

Axial angular contact ball bearing
ZKLN..-2RS-XL, double direction, no screw
mounting

X-life

Technical information



Main Dimensions & Performance Data

d	20 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0.005 mm	Bore diameter lower tolerance
D	52 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0.01 mm	Outside diameter lower tolerance
B	28 mm	Width
	0 mm	Width upper tolerance
	-0.25 mm	Width lower tolerance
C_a	28,500 N	Basic dynamic load rating, axial
C_{0a}	47,000 N	Basic static load rating, axial
C_{ua}	2,850 N	Fatigue load limit, axial
$n_{G \text{ Grease}}$	6,600 1/min	Limiting speed for grease lubrication
n_g	3,000 1/min	Thermally safe operating speed
M_R	0.3 Nm	Bearing frictional torque
$\approx m$	0.31 kg	Weight

Mounting dimensions

$D_{a \text{ max}}$	43 mm	Maximum diameter of housing
$d_{a \text{ min}}$	25 mm	Minimum diameter shaft

Dimensions

d_1	34.5 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}	650 N/μm	Rigidity axial
c_{kL}	140 Nm/mrad	Tilting rigidity
M_m	0.273 kg*cm ²	Mass moment of inertia
	2 μm	Axial runout
	ZM20	Recommended INA precision locknut for radial locking
	AM20	Recommended INA precision locknut for axial locking
M_A	18 Nm	Tightening torque for the recommended INA precision locknut
	8,258 N	Required locknut force axial