

## ZKLN0619-2Z-XL

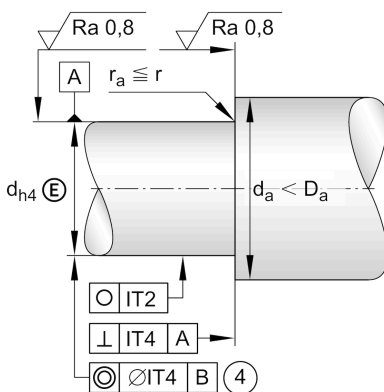
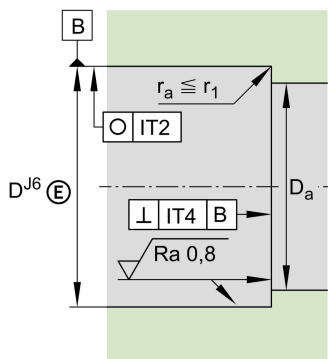
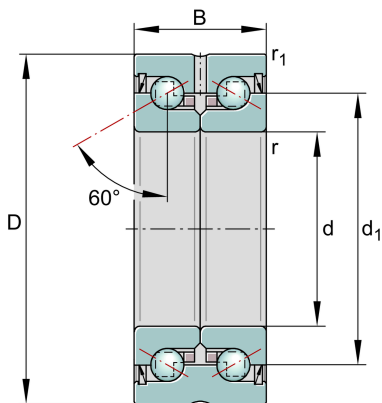
Axial angular contact ball bearing

Schaeffler ID:  
0001308850000

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

X-life

### Technical information



### Main Dimensions & Performance Data

d	6 mm	Bore diameter
	0.002 mm	Bore diameter upper tolerance
	-0.003 mm	Bore diameter lower tolerance
D	19 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0.01 mm	Outside diameter lower tolerance
B	12 mm	Width
	0 mm	Width upper tolerance
	-0.25 mm	Width lower tolerance
$C_a$	5,000 N	Basic dynamic load rating, axial
$C_{0a}$	5,700 N	Basic static load rating, axial
$C_{ua}$	345 N	Fatigue load limit, axial
$n_{G \text{ Grease}}$	22,800 1/min	Limiting speed for grease lubrication
$n_g$	14,000 1/min	Thermally safe operating speed
$M_R$	0.01 Nm	Bearing frictional torque
$\approx m$	0.018 kg	Weight

### Mounting dimensions

$D_{a \text{ max}}$	16 mm	Maximum diameter of housing
$d_{a \text{ min}}$	9 mm	Minimum diameter shaft

### Dimensions

$d_1$	12 mm	Rib diameter inner ring
$r_{\text{min}}$	0.3 mm	Minimum chamfer dimension
$r_{1 \text{ min}}$	0.3 mm	Minimum chamfer dimension
$\alpha$	60 °	Contact angle

**Temperature range**

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

**Additional information**

$c_{aL}$	150 N/ $\mu\text{m}$	Rigidity axial
$c_{kL}$	4 Nm/mrad	Tilting rigidity
$M_m$	0.0019 kg*cm <sup>2</sup>	Mass moment of inertia
	2 $\mu\text{m}$	Axial runout
	ZM06	Recommended INA precision locknut for radial locking
$M_A$	1 Nm	Tightening torque for the recommended INA precision locknut
	2,010 N	Required locknut force axial