

**ZKLN0619-2Z-XL**

Axial angular contact ball bearing

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

X-life

Technical information



Your current product variant

| | | |
|-----------------|----------|--------------------------------|
| Sealing | 2Z | Minimal gap seal on both sides |
| Tolerance class | Standard | |

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 | 4.000 N | Basic dynamic load rating, axial |
| C _{0a} | 4.350 N | Basic static load rating, axial |
| C _{ua} | 345 N | Fatigue load limit, axial |
| n _G 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 |
| ≈m | 0,018 kg | Weight |



Mounting dimensions

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

Dimensions

| | | |
|--------------|--------|---------------------------|
| d_1 | 12 mm | Rib diameter inner ring |
| r_{\min} | 0,3 mm | Minimum chamfer dimension |
| $r_{1 \min}$ | 0,3 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} | 150 N/μm | Rigidity axial |
| c_{kL} | 4 Nm/mrad | Tilting rigidity |
| M_m | 0,002 kg*cm ² | Mass moment of inertia |
| | 2 μm | 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 |



Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Lifetime lubrication, freedom from maintenance



Grease Lubrication



Sealed on both sides