



ZKLF50115-2Z-XL

Axial angular contact ball bearing

Axial angular contact ball bearings ZKLF..-2Z, double direction, for screw mounting, gap seals on both sides

X-life

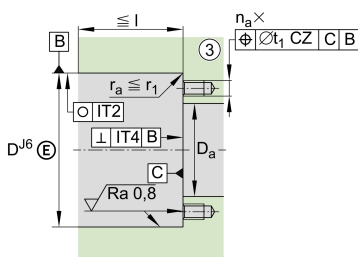
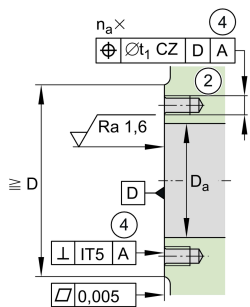
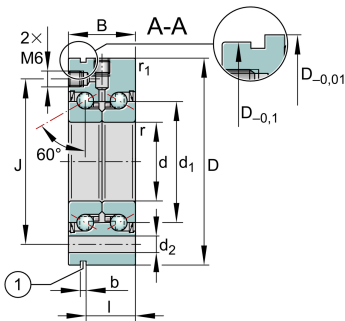
Technical information

Your current product variant

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

Main Dimensions & Performance Data

| | | |
|--------------------------|-------------|---------------------------------------|
| d | 50 mm | Bore diameter |
| | 0 mm | Bore diameter upper tolerance |
| | -0,005 mm | Bore diameter lower tolerance |
| D | 115 mm | Outside diameter |
| | 0 mm | Outside diameter upper tolerance |
| | -0,01 mm | Outside diameter lower tolerance |
| B | 34 mm | Width |
| | 0 mm | Width upper tolerance |
| | -0,25 mm | Width lower tolerance |
| C _a | 51.000 N | Basic dynamic load rating, axial |
| C _{0a} | 126.000 N | Basic static load rating, axial |
| C _{ua} | 7.700 N | Fatigue load limit, axial |
| n _G Grease | 4.200 1/min | Limiting speed for grease lubrication |
| n _g | 3.000 1/min | Thermally safe operating speed |
| M _R | 0,45 Nm | Bearing frictional torque |
| ≈m | 1,784 kg | Weight |





Mounting dimensions

| | | |
|--------------|--------|--|
| $D_{a \max}$ | 82 mm | Maximum diameter of housing |
| $d_{a \min}$ | 63 mm | Minimum diameter shaft |
| t_1 | 0,2 mm | Position tolerance of bore in the housing |
| | M8 | Size of fixing screws |
| n_a | 6 | Number of holes in adjacent construction |
| t_a | 60 ° | Pitch separation angle of holes in adjacent construction |
| | M6 | Connection thread for lubrication |

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 |
| J | 94 mm | Pitch circle diameter fixing holes |
| d_2 | 8,8 mm | Fixing holes diameter |
| b | 3 mm | Width of extraction slot |
| l | 25 mm | Distance of extraction slot |
| n | 12 | Pitch quantity of fixing holes |
| t | 30 ° | Pitch separation angle of fixing holes |
| a | 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 |
| | 2,5 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 |

Characteristics

-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Lifetime lubrication, freedom from maintenance
-  Grease Lubrication
-  Sealed on both sides