

ZKLN2052-2RS-2AP-XL

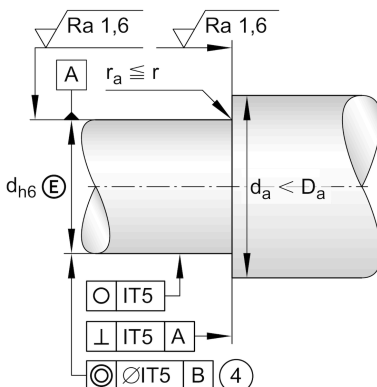
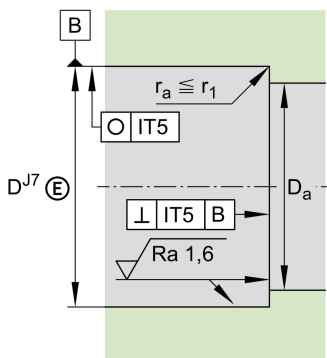
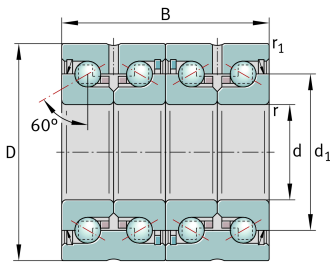
Axial angular contact ball bearing

Schaeffler ID:
0015792400000

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 | 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 | 56 mm | Width |
| | 0 mm | Width upper tolerance |
| | -0.5 mm | Width lower tolerance |
| C _a | 46,000 N | Basic dynamic load rating, axial |
| C _{0a} | 94,000 N | Basic static load rating, axial |
| C _{ua} | 5,700 N | Fatigue load limit, axial |
| n _{G Grease} | 6,600 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 | 0.622 kg | Weight |

Mounting dimensions

| | | |
|--------------------|-------|-----------------------------|
| D _{a max} | 43 mm | Maximum diameter of housing |
| d _{a 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 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} | 1,150 N/μm | Rigidity axial |
| c_{kL} | 320 Nm/mrad | Tilting rigidity |
| M_m | 0.546 kg*cm ² | Mass moment of inertia |
| | 2 μm | Axial runout |
| | ZMA20/38 | 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 |