

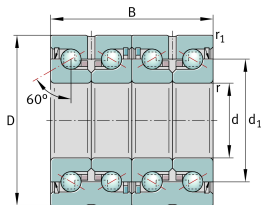
## ZKLN2052-2RS-2AP-XL

Axial angular contact ball bearing

Axial angular contact ball bearings  
ZKLN..-2RS-2AP-XL, matched pair, double  
direction, lip seals on both sides

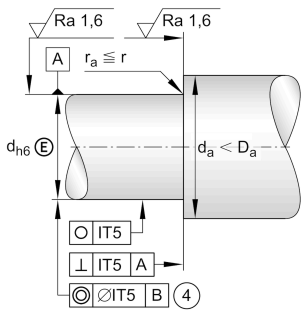
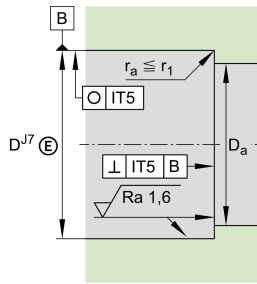
X-life

### Technical information



#### Your current product variant

Sealing	2RS	Contact lip seals on both sides
Tolerance class	Standard	
Number of bearings	2AP	Axial angular contact ball bearings, matched pair



### 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 <sub>a</sub>	46.000 N	Basic dynamic load rating, axial
C <sub>0a</sub>	94.000 N	Basic static load rating, axial
C <sub>ua</sub>	5.700 N	Fatigue load limit, axial
n <sub>G</sub> Grease	6.600 1/min	Limiting speed for grease lubrication
n <sub>g</sub>	3.000 1/min	Thermally safe operating speed
M <sub>R</sub>	0,45 Nm	Bearing frictional torque
≈m	0,622 kg	Weight

### Mounting dimensions

D <sub>a max</sub>	43 mm	Maximum diameter of housing
d <sub>a min</sub>	25 mm	Minimum diameter shaft

### Dimensions

d <sub>1</sub>	34,5 mm	Rib diameter inner ring
r <sub>min</sub>	0,3 mm	Minimum chamfer dimension
r <sub>1 min</sub>	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/ $\mu$ m	Rigidity axial
$c_{kL}$	320 Nm/mrad	Tilting rigidity
$M_m$	0,546 kg*cm <sup>2</sup>	Mass moment of inertia
	2 $\mu$ m	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

### Characteristics

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