



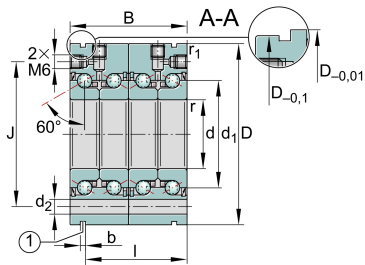
## ZKLF40100-2RS-2AP-XL

Axial angular contact ball bearing

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

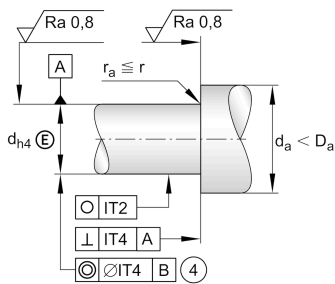
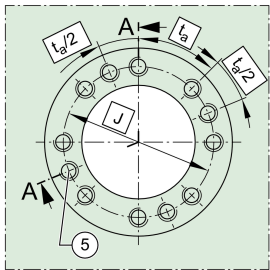
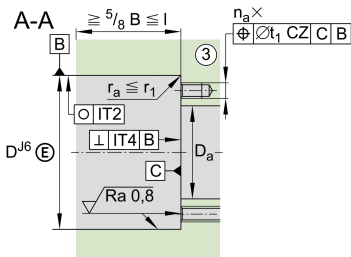
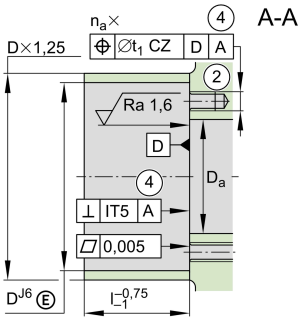
X-life

### Technical information



### Your current product variant

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



### Main Dimensions & Performance Data

d	40 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0,005 mm	Bore diameter lower tolerance
D	100 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0,01 mm	Outside diameter lower tolerance
B	68 mm	Width
	0 mm	Width upper tolerance
	-0,5 mm	Width lower tolerance
C <sub>a</sub>	77.000 N	Basic dynamic load rating, axial
C <sub>0a</sub>	202.000 N	Basic static load rating, axial
C <sub>ua</sub>	12.300 N	Fatigue load limit, axial
n <sub>G</sub> Grease	4.000 1/min	Limiting speed for grease lubrication
n <sub>g</sub>	1.800 1/min	Thermally safe operating speed
M <sub>R</sub>	1,05 Nm	Bearing frictional torque
≈m	2,833 kg	Weight

### Mounting dimensions

D <sub>a max</sub>	67 mm	Maximum diameter of housing
d <sub>a min</sub>	50 mm	Minimum diameter shaft
t <sub>1</sub>	0,2 mm	Position tolerance of bore in the housing
	M8X80	Size of fixing screws
n <sub>a</sub>	7	Number of holes in adjacent construction
t <sub>a</sub>	45 °	Pitch separation angle of holes in adjacent construction
	M6	Connection thread for lubrication



### Dimensions

d <sub>1</sub>	58 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
J	80 mm	Pitch circle diameter fixing holes
d <sub>2</sub>	8,8 mm	Fixing holes diameter
b	3 mm	Width of extraction slot
l	59 mm	Distance of extraction slot
n	7	Pitch quantity of fixing holes
t	45 °	Pitch separation angle of fixing holes
a	60 °	Contact angle

### Temperature range

T <sub>min</sub>	-30 °C	Operating temperature min.
T <sub>max</sub>	120 °C	Operating temperature max.

### Additional information

c <sub>aL</sub>	1.750 N/μm	Rigidity axial
c <sub>kL</sub>	1.200 Nm/mrad	Tilting rigidity
M <sub>m</sub>	4,52 kg*cm <sup>2</sup>	Mass moment of inertia
	2,5 μm	Axial runout
	ZMA40/62	Recommended INA precision locknut for radial locking
	AM40	Recommended INA precision locknut for axial locking
M <sub>A</sub>	55 Nm	Tightening torque for the recommended INA precision locknut
	13.412 N	Required locknut force axial



### Characteristics

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Radial load



Axial load in one direction



Axial load in two directions



Lifetime lubrication, freedom from maintenance



Grease Lubrication



Sealed on both sides