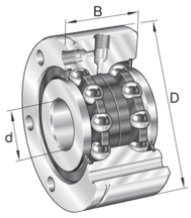
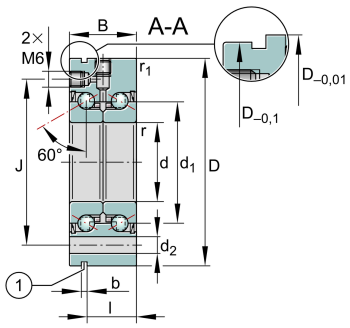


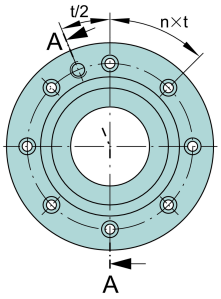
ZKLF100230-2Z

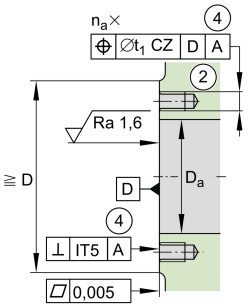
Axial angular contact ball bearing

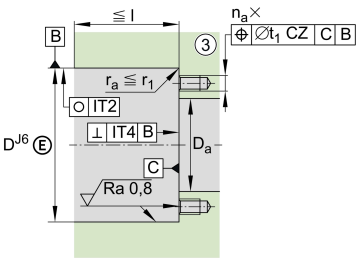
Axial angular contact ball bearings ZKLF..-2Z, double direction, for screw mounting, gap seals on both sides

Technical information







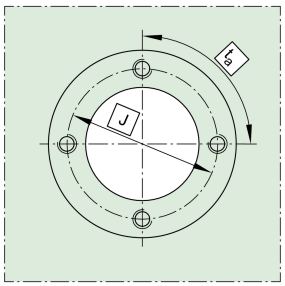


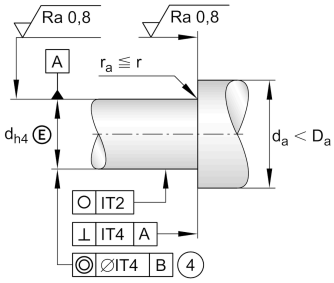
Your current product variant

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

Main Dimensions & Performance Data

d	100 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0,008 mm	Bore diameter lower tolerance
D	230 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0,015 mm	Outside diameter lower tolerance
B	85 mm	Width
	0 mm	Width upper tolerance
	-0,25 mm	Width lower tolerance
C_a	295.000 N	Basic dynamic load rating, axial
C_{0a}	790.000 N	Basic static load rating, axial
C_{ua}	30.000 N	Fatigue load limit, axial
n_G Grease	2.900 1/min	Limiting speed for grease lubrication
n_ϑ	2.000 1/min	Thermally safe operating speed
M_R	3 Nm	Bearing frictional torque
≈m	17,605 kg	Weight





Mounting dimensions

$D_{a\ max}$	175 mm	Maximum diameter of housing
$d_{a\ min}$	130 mm	Minimum diameter shaft
t_1	0,4 mm	Position tolerance of bore in the housing
	M12	Size of fixing screws
n_a	12	Number of holes in adjacent construction
t_a	30 °	Pitch separation angle of holes in adjacent construction
	M6	Connection thread for lubrication

Dimensions

d_1	146 mm	Rib diameter inner ring
r_{min}	0,6 mm	Minimum chamfer dimension
$r_{1\ min}$	0,6 mm	Minimum chamfer dimension
J	200 mm	Pitch circle diameter fixing holes
d_2	14 mm	Fixing holes diameter
b	3 mm	Width of extraction slot
l	73 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}	2.450 N/µm	Rigidity axial
c_{kL}	8.200 Nm/mrad	Tilting rigidity
M_m	185 kg*cm2	Mass moment of inertia
	3 µm	Axial runout
	AM100	Recommended INA precision locknut for axial locking
M_A	500 Nm	Tightening torque for the recommended INA precision locknut
	52.000 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