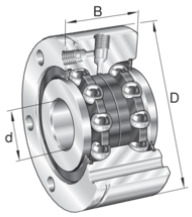


ZKLF100200-2Z-XL

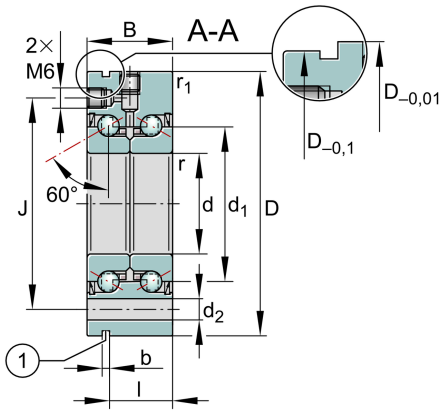
Axial angular contact ball bearing

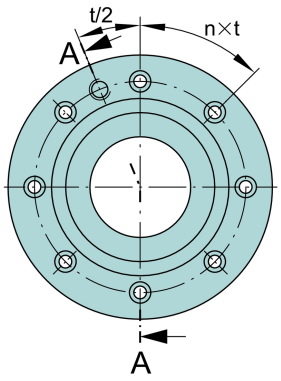
Schaeffler ID:
0010068600000

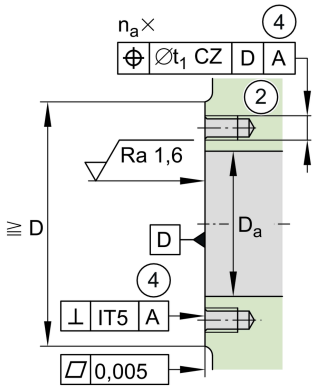
Axial angular contact ball bearings ZKLF..-2Z, double direction, for screw mounting, gap seals on both sides

X-life

Technical information





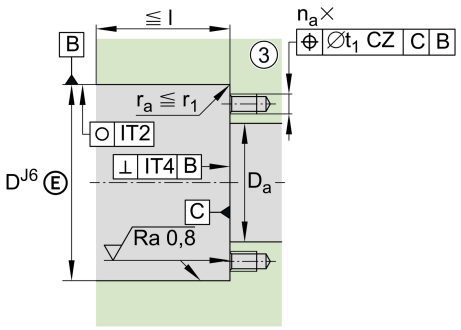


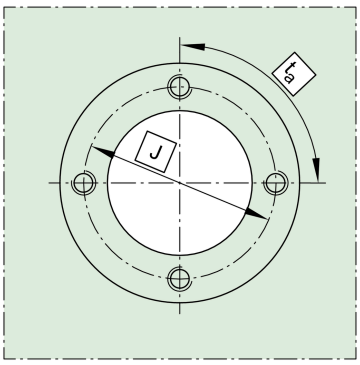
Main Dimensions & Performance Data

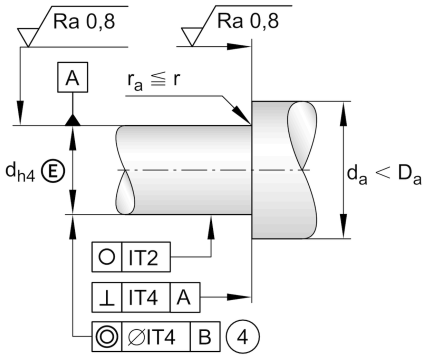
d	100 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0,008 mm	Bore diameter lower tolerance
D	200 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0,015 mm	Outside diameter lower tolerance
B	55 mm	Width
	0 mm	Width upper tolerance
	-0,25 mm	Width lower tolerance
C_a	154.000 N	Basic dynamic load rating, axial
C_{0a}	435.000 N	Basic static load rating, axial
C_{ua}	23.000 N	Fatigue load limit, axial
$n_{G\ Grease}$	3.300 1/min	Limiting speed for grease lubrication
n_ϑ	2.150 1/min	Thermally safe operating speed
M_R	2,6 Nm	Bearing frictional torque
≈m	8,372 kg	Weight

Mounting dimensions

$D_{a\ max}$	150 mm	Maximum diameter of housing
$d_{a\ min}$	128 mm	Minimum diameter shaft
t_1	0,2 mm	Position tolerance of bore in the housing
	M10	Size of fixing screws
n_a	8	Number of holes in adjacent construction
t_a	45 °	Pitch separation angle of holes in adjacent construction
	M6	Connection thread for lubrication







Dimensions

d_1	132 mm	Rib diameter inner ring
r_{min}	0,6 mm	Minimum chamfer dimension
$r_{1\,min}$	0,6 mm	Minimum chamfer dimension
J	175 mm	Pitch circle diameter fixing holes
d_2	11 mm	Fixing holes diameter
b	3 mm	Width of extraction slot
l	45 mm	Distance of extraction slot
n	8	Pitch quantity of fixing holes
t	45 °	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}	1.900 N/µm	Rigidity axial
c_{kL}	5.800 Nm/mrad	Tilting rigidity
M_m	85,3 kg*cm2	Mass moment of inertia
	3 µm	Axial runout
	ZMA100/140	Recommended INA precision locknut for radial locking
	AM100	Recommended INA precision locknut for axial locking
M_A	250 Nm	Tightening torque for the recommended INA precision locknut
	25.624 N	Required locknut force axial