

**ZKLF100230-2Z**

Axial angular contact ball bearing

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

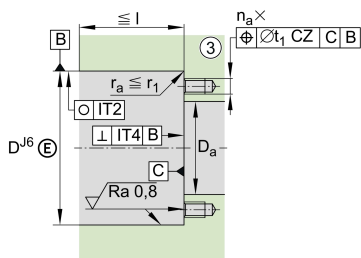
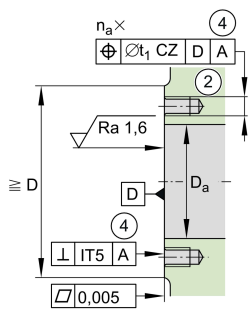
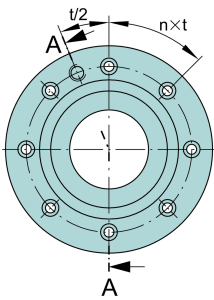
Technical information

Your current product variant

Type of seal	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 _g	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/ μ m	Rigidity axial
c_{kL}	8.200 Nm/mrad	Tilting rigidity
M_m	185 kg*cm ²	Mass moment of inertia
	3 μ m	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