

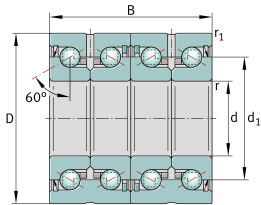
## ZKLN2557-2RS-2AP-XL

Axial angular contact ball bearing

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

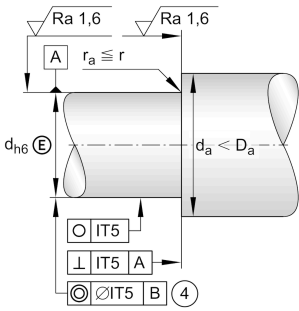
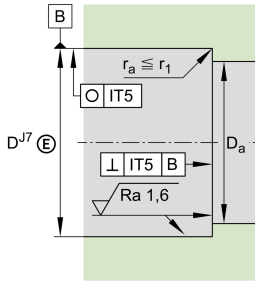
X-life

### Technical information



#### Your current product variant

Type of seal	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	25 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0,005 mm	Bore diameter lower tolerance
D	57 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
$C_a$	49.000 N	Basic dynamic load rating, axial
$C_{0a}$	111.000 N	Basic static load rating, axial
$C_{ua}$	6.700 N	Fatigue load limit, axial
$n_{G \text{ Grease}}$	5.700 1/min	Limiting speed for grease lubrication
$n_{\vartheta}$	2.600 1/min	Thermally safe operating speed
$M_R$	0,6 Nm	Bearing frictional torque
$\approx m$	0,711 kg	Weight

### Mounting dimensions

$D_{a \text{ max}}$	48 mm	Maximum diameter of housing
$d_{a \text{ min}}$	32 mm	Minimum diameter shaft

### Dimensions

$d_1$	40,5 mm	Rib diameter inner ring
$r_{\text{min}}$	0,3 mm	Minimum chamfer dimension
$r_{1 \text{ min}}$	0,6 mm	Minimum chamfer dimension
$\alpha$	60 °	Contact angle









### Temperature range

$T_{min}$	-30 °C	Operating temperature min.
$T_{max}$	120 °C	Operating temperature max.

### Additional information

$c_{aL}$	1.300 N/ $\mu$ m	Rigidity axial
$c_{kL}$	450 Nm/mrad	Tilting rigidity
$M_m$	0,972 kg*cm <sup>2</sup>	Mass moment of inertia
	2 $\mu$ m	Axial runout
	ZMA25/45	Recommended INA precision locknut for radial locking
	AM25	Recommended INA precision locknut for axial locking
$M_A$	25 Nm	Tightening torque for the recommended INA precision locknut
	9.123 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