

## ZKLN2557-2RS-XL

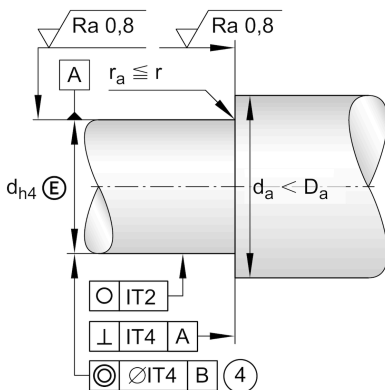
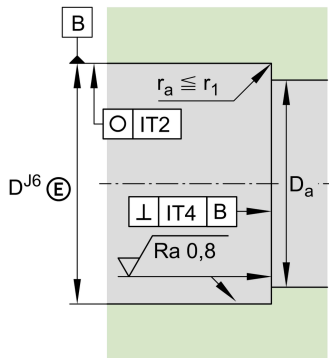
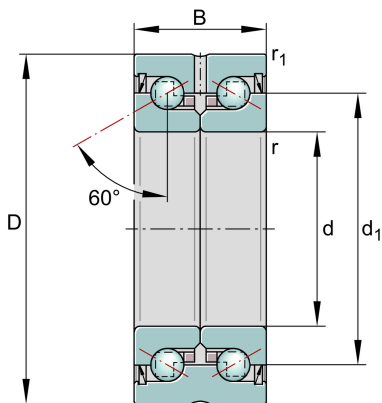
Axial angular contact ball bearing

Schaeffler ID:  
0016325580000

Axial angular contact ball bearing  
ZKLN..-2RS-XL, double direction, no screw  
mounting

X-life

### Technical information



### 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	28 mm	Width
	0 mm	Width upper tolerance
	-0.25 mm	Width lower tolerance
C <sub>a</sub>	30,500 N	Basic dynamic load rating, axial
C <sub>0a</sub>	55,000 N	Basic static load rating, axial
C <sub>ua</sub>	3,350 N	Fatigue load limit, axial
n <sub>G Grease</sub>	5,700 1/min	Limiting speed for grease lubrication
n <sub>g</sub>	2,600 1/min	Thermally safe operating speed
M <sub>R</sub>	0.4 Nm	Bearing frictional torque
≈m	0.354 kg	Weight

### Mounting dimensions

D <sub>a max</sub>	48 mm	Maximum diameter of housing
d <sub>a min</sub>	32 mm	Minimum diameter shaft

### Dimensions

d <sub>1</sub>	40.5 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
α	60 °	Contact angle

**Temperature range**

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

**Additional information**

$c_{aL}$	750 N/ $\mu\text{m}$	Rigidity axial
$c_{kL}$	200 Nm/mrad	Tilting rigidity
$M_m$	0.486 kg*cm <sup>2</sup>	Mass moment of inertia
	2 $\mu\text{m}$	Axial runout
	ZM25	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