

## ZKLN1242-2RS-XL

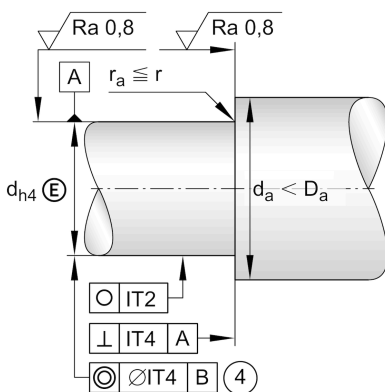
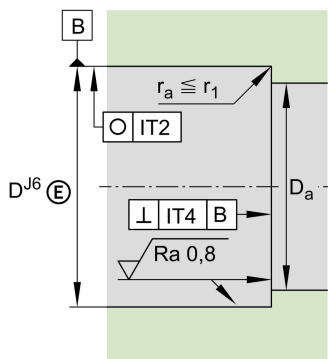
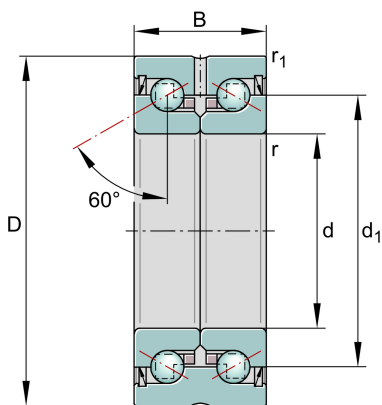
Axial angular contact ball bearing

Schaeffler ID:  
0016325150000

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

X-life

### Technical information



### Main Dimensions & Performance Data

d	12 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0.005 mm	Bore diameter lower tolerance
D	42 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0.01 mm	Outside diameter lower tolerance
B	25 mm	Width
	0 mm	Width upper tolerance
	-0.25 mm	Width lower tolerance
$C_a$	18,800 N	Basic dynamic load rating, axial
$C_{0a}$	25,000 N	Basic static load rating, axial
$C_{ua}$	1,520 N	Fatigue load limit, axial
$n_{G \text{ Grease}}$	9,200 1/min	Limiting speed for grease lubrication
$n_g$	3,800 1/min	Thermally safe operating speed
$M_R$	0.16 Nm	Bearing frictional torque
$\approx m$	0.197 kg	Weight

### Mounting dimensions

$D_{a \text{ max}}$	33 mm	Maximum diameter of housing
$d_{a \text{ min}}$	16 mm	Minimum diameter shaft

### Dimensions

$d_1$	25 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**

$c_{aL}$	375 N/ $\mu\text{m}$	Rigidity axial
$c_{kL}$	50 Nm/mrad	Tilting rigidity
$M_m$	0.068 kg*cm <sup>2</sup>	Mass moment of inertia
	2 $\mu\text{m}$	Axial runout
	ZM12	Recommended INA precision locknut for radial locking
$M_A$	8 Nm	Tightening torque for the recommended INA precision locknut
	5,307 N	Required locknut force axial