



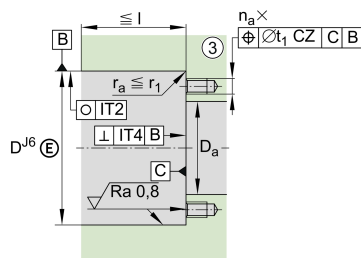
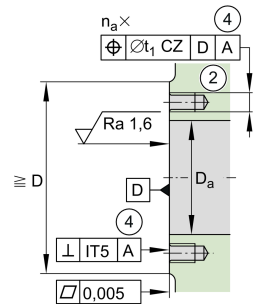
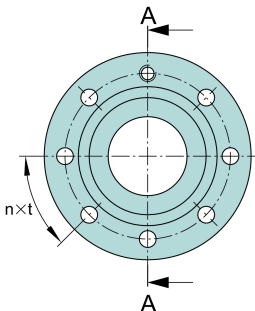
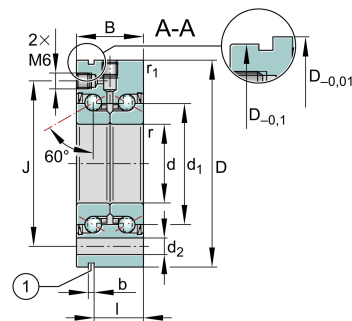
ZKL3590-2RS-XL

Axial angular contact ball bearing

Axial angular contact ball bearings  
ZKL3590-2RS, double direction, for screw  
mounting, lip seals on both sides

X-life

Informacje techniczne

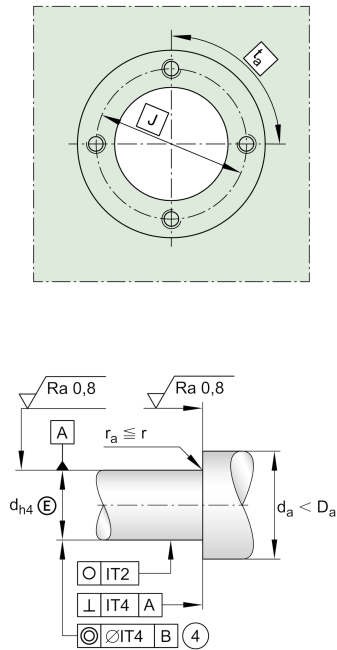


Twoja aktualna wersja produktu

|                 |          |                                 |
|-----------------|----------|---------------------------------|
| Sealing         | 2RS      | Contact lip seals on both sides |
| Tolerance class | Standard |                                 |

Main Dimensions & Performance Data

|                          |             |                                       |
|--------------------------|-------------|---------------------------------------|
| d                        | 35 mm       | Bore diameter                         |
|                          | 0 mm        | Bore diameter upper tolerance         |
|                          | -0,005 mm   | Bore diameter lower tolerance         |
| D                        | 90 mm       | Outside diameter                      |
|                          | 0 mm        | Outside diameter upper tolerance      |
|                          | -0,01 mm    | Outside diameter lower tolerance      |
| B                        | 34 mm       | Width                                 |
|                          | 0 mm        | Width upper tolerance                 |
|                          | -0,25 mm    | Width lower tolerance                 |
| C <sub>a</sub>           | 45.000 N    | Basic dynamic load rating, axial      |
| C <sub>0a</sub>          | 89.000 N    | Basic static load rating, axial       |
| C <sub>ua</sub>          | 5.400 N     | Fatigue load limit, axial             |
| n <sub>G</sub><br>Grease | 4.400 1/min | Limiting speed for grease lubrication |
| n <sub>g</sub>           | 2.000 1/min | Thermally safe operating speed        |
| M <sub>R</sub>           | 0,6 Nm      | Bearing frictional torque             |
| ≈m                       | 1,171 kg    | Masa                                  |



Mounting dimensions

|                    |        |                                                          |
|--------------------|--------|----------------------------------------------------------|
| D <sub>a</sub> max | 62 mm  | Maximum diameter of housing                              |
| d <sub>a</sub> min | 45 mm  | Minimum diameter shaft                                   |
| t <sub>1</sub>     | 0,2 mm | Position tolerance of bore in the housing                |
|                    | M8     | Size of fixing screws                                    |
| n <sub>a</sub>     | 4      | Number of holes in adjacent construction                 |
| t <sub>a</sub>     | 90 °   | Pitch separation angle of holes in adjacent construction |

Dimensions

|                    |        |                                        |
|--------------------|--------|----------------------------------------|
| d <sub>1</sub>     | 52 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              |
| J                  | 75 mm  | Pitch circle diameter fixing holes     |
| d <sub>2</sub>     | 8,8 mm | Fixing holes diameter                  |
| b                  | 3 mm   | Width of extraction slot               |
| l                  | 25 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 <sub>min</sub> | -30 °C | Operating temperature min. |
| T <sub>max</sub> | 120 °C | Operating temperature max. |



Additional information

|          |                |                                                             |
|----------|----------------|-------------------------------------------------------------|
| $c_{aL}$ | 900 N/ $\mu$ m | Rigidity axial                                              |
| $c_{kL}$ | 400 Nm/mrad    | Tilting rigidity                                            |
| $M_m$    | 1,51 kg*cm2    | Mass moment of inertia                                      |
|          | 2,5 $\mu$ m    | Axial runout                                                |
|          | ZM35           | Recommended INA precision locknut for radial locking        |
|          | AM35/58        | Recommended INA precision locknut for axial locking         |
| $M_A$    | 40 Nm          | Tightening torque for the recommended INA precision locknut |
|          | 10.770 N       | Required locknut force axial                                |

Właściwości

-  Obciążenie promieniowe
-  Obciążenie osiowe jednokierunkowe
-  Obciążenie osiowe dwukierunkowe
-  Smarowanie dożywotnie, bezobsługowe
-  Smarowanie smarem
-  Uszczelnienie dwustronne