



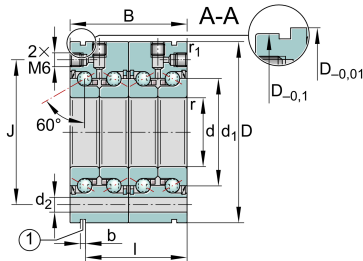
**ZKLF3080-2RS-2AP-XL**

Axial angular contact ball bearing

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

X-life

Informacje techniczne



Twoja aktualna wersja produktu

|                    |          |                                                      |
|--------------------|----------|------------------------------------------------------|
| Number of bearings | 2AP      | Axial angular contact ball bearings,<br>matched pair |
| Sealing            | 2RS      | Contact lip seals on both sides                      |
| Tolerance class    | Standard |                                                      |

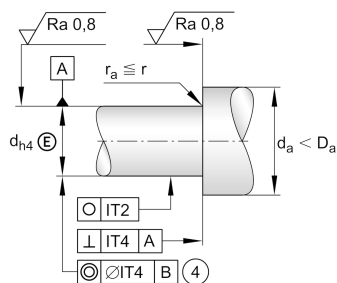
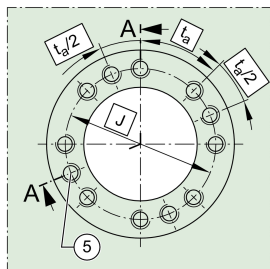
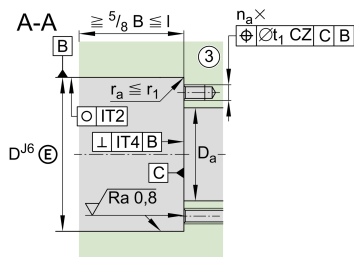
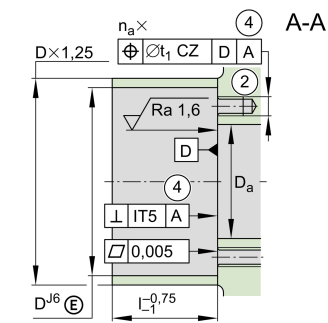
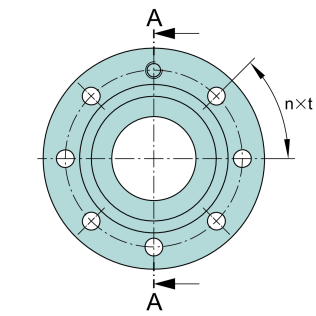


## Main Dimensions &amp; Performance Data

|                          |             |                                       |
|--------------------------|-------------|---------------------------------------|
| d                        | 30 mm       | Bore diameter                         |
|                          | 0 mm        | Bore diameter upper tolerance         |
|                          | -0,005 mm   | Bore diameter lower tolerance         |
| D                        | 80 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 <sub>a</sub>           | 52.000 N    | Basic dynamic load rating, axial      |
| C <sub>0a</sub>          | 127.000 N   | Basic static load rating, axial       |
| C <sub>ua</sub>          | 7.700 N     | Fatigue load limit, axial             |
| n <sub>G</sub><br>Grease | 5.000 1/min | Limiting speed for grease lubrication |
| n <sub>g</sub>           | 2.200 1/min | Thermally safe operating speed        |
| M <sub>R</sub>           | 0,75 Nm     | Bearing frictional torque             |
| ≈m                       | 1,464 kg    | Masa                                  |

## Mounting dimensions

|                    |        |                                                          |
|--------------------|--------|----------------------------------------------------------|
| D <sub>a</sub> max | 53 mm  | Maximum diameter of housing                              |
| d <sub>a</sub> min | 40 mm  | Minimum diameter shaft                                   |
| t <sub>1</sub>     | 0,1 mm | Position tolerance of bore in the housing                |
|                    | M6X70  | Size of fixing screws                                    |
| n <sub>a</sub>     | 11     | Number of holes in adjacent construction                 |
| t <sub>a</sub>     | 30 °   | Pitch separation angle of holes in adjacent construction |
|                    | M6     | Connection thread for lubrication                        |





Dimensions

|         |         |                                        |
|---------|---------|----------------------------------------|
| d 1     | 45,5 mm | Rib diameter inner ring                |
| r min   | 0,3 mm  | Minimum chamfer dimension              |
| r 1 min | 0,6 mm  | Minimum chamfer dimension              |
| J       | 63 mm   | Pitch circle diameter fixing holes     |
| d 2     | 6,8 mm  | Fixing holes diameter                  |
| b       | 3 mm    | Width of extraction slot               |
| l       | 47 mm   | Distance of extraction slot            |
| n       | 11      | 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 | 1.500 N/μm  | Rigidity axial                                              |
| c kL | 620 Nm/mrad | Tilting rigidity                                            |
| M m  | 1,46 kg*cm2 | Mass moment of inertia                                      |
|      | 2,5 μm      | Axial runout                                                |
|      | ZMA30/52    | Recommended INA precision locknut for radial locking        |
|      | AM30        | Recommended INA precision locknut for axial locking         |
| M A  | 32 Nm       | Tightening torque for the recommended INA precision locknut |
|      | 9.947 N     | Required locknut force axial                                |



### Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Obciążenie osiowe dwukierunkowe



Smarowanie dożywotnie, bezobsługowe



Smarowanie smarem



Uszczelnienie dwustronne