



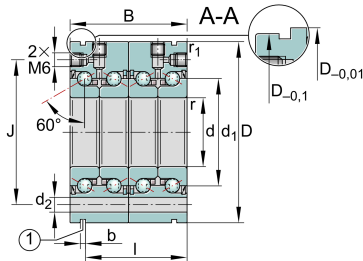
**ZKLF3590-2Z-2AP-XL**

Axial angular contact ball bearing

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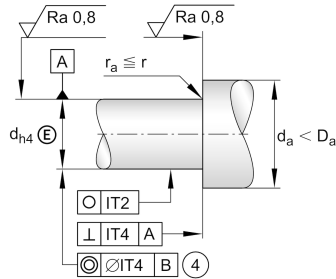
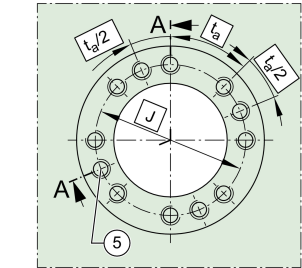
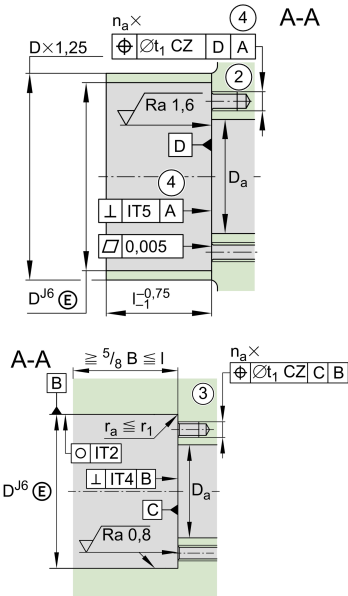
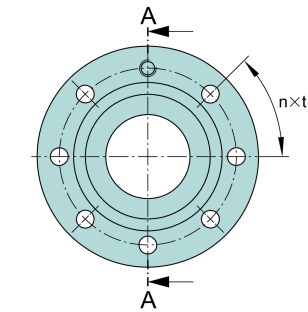
X-life

Informacje techniczne



Twoja aktualna wersja produktu

|                    |          |                                                   |
|--------------------|----------|---------------------------------------------------|
| Number of bearings | 2AP      | Axial angular contact ball bearings, matched pair |
| Sealing            | 2Z       | Minimal gap seal 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                        | 68 mm       | Width                                 |
|                          | 0 mm        | Width upper tolerance                 |
|                          | -0,5 mm     | Width lower tolerance                 |
| C <sub>a</sub>           | 73.000 N    | Basic dynamic load rating, axial      |
| C <sub>0a</sub>          | 177.000 N   | Basic static load rating, axial       |
| C <sub>ua</sub>          | 10.800 N    | Fatigue load limit, axial             |
| n <sub>G</sub><br>Grease | 5.800 1/min | Limiting speed for grease lubrication |
| n <sub>g</sub>           | 3.800 1/min | Thermally safe operating speed        |
| M <sub>R</sub>           | 0,6 Nm      | Bearing frictional torque             |
| ≈m                       | 2,244 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                |
|                    | M8X80  | Size of fixing screws                                    |
| n <sub>a</sub>     | 7      | Number of holes in adjacent construction                 |
| t <sub>a</sub>     | 45 °   | Pitch separation angle of holes in adjacent construction |
|                    | M6     | Connection thread for lubrication                        |



Dimensions

|         |        |                                        |
|---------|--------|----------------------------------------|
| d 1     | 52 mm  | Rib diameter inner ring                |
| r min   | 0,3 mm | Minimum chamfer dimension              |
| r 1 min | 0,6 mm | Minimum chamfer dimension              |
| J       | 75 mm  | Pitch circle diameter fixing holes     |
| d 2     | 8,8 mm | Fixing holes diameter                  |
| b       | 3 mm   | Width of extraction slot               |
| l       | 59 mm  | Distance of extraction slot            |
| n       | 7      | Pitch quantity of fixing holes         |
| t       | 45 °   | 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 | 1.600 N/μm  | Rigidity axial                                              |
| c kL | 900 Nm/mrad | Tilting rigidity                                            |
| M m  | 3,02 kg*cm2 | Mass moment of inertia                                      |
|      | 2,5 μm      | Axial runout                                                |
|      | ZMA35/58    | 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