**ZARF50140-TV**

Needle roller/axial cylindrical roller bearing

Needle roller/axial cylindrical roller bearings  
ZARF, double direction, for screw mounting

## Informacje techniczne

## Twoja aktualna wersja produktu

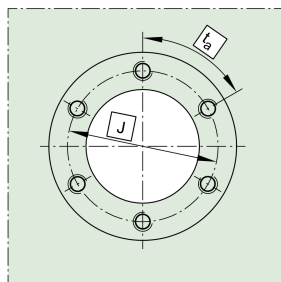
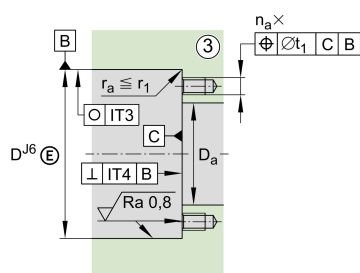
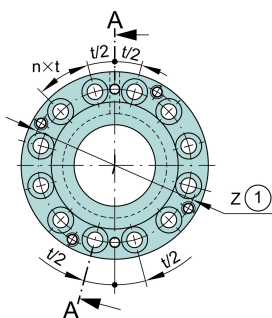
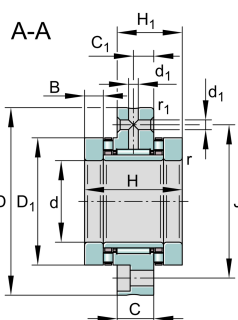
|      |    |                             |
|------|----|-----------------------------|
| Cage | TV | Plastic Cage made from PA66 |
|------|----|-----------------------------|

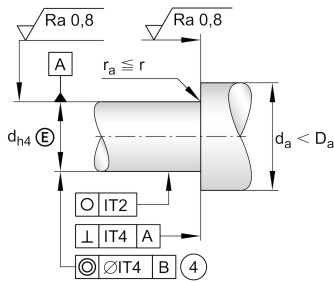
## Main Dimensions &amp; Performance Data

|                       |             |                                       |
|-----------------------|-------------|---------------------------------------|
| d                     | 50 mm       | Bore diameter                         |
| D                     | 140 mm      | Outside diameter                      |
| H                     | 82 mm       | Height                                |
| C <sub>a</sub>        | 172.000 N   | Basic dynamic load rating, axial      |
| C <sub>0a</sub>       | 480.000 N   | Basic static load rating, axial       |
| C <sub>r</sub>        | 46.500 N    | Basic dynamic load rating, radial     |
| C <sub>0r</sub>       | 103.000 N   | Basic static load rating, radial      |
| C <sub>ua</sub>       | 44.500 N    | Fatigue load limit, axial             |
| C <sub>ur</sub>       | 12.700 N    | Fatigue load limit, radial            |
| n <sub>G Oil</sub>    | 3.100 1/min | Limiting speed for oil lubrication    |
| n <sub>G Grease</sub> | 1.100 1/min | Limiting speed for grease lubrication |
| M <sub>RL</sub>       | 3,8 Nm      | Bearing friction torque               |
| ≈m                    | 4,086 kg    | Masa                                  |

## Mounting dimensions

|                    |        |                                      |
|--------------------|--------|--------------------------------------|
| D <sub>a max</sub> | 96 mm  | Maximum diameter of housing shoulder |
| d <sub>a min</sub> | 75 mm  | Minimum diameter shaft shoulder      |
| t <sub>1</sub>     | 0,2 mm | Position bore in the housing         |





Dimensions

|         |         |                                    |
|---------|---------|------------------------------------|
| H 1     | 51 mm   | Height outer ring over wave washer |
| C       | 22,5 mm | Width, outer ring                  |
| C 1     | 12,5 mm | Distance to lubrication hole       |
| D 1     | 95 mm   | Rip diameter shaft washer          |
| B       | 17,5 mm | Width inner ring                   |
| r min   | 0,3 mm  | Minimum chamfer dimension          |
| r 1 min | 0,6 mm  | Minimum chamfer dimension          |
| d 1     | 6 mm    | Diameter lubrication hole          |
| J       | 113 mm  | Pitch circle diameter (holes)      |
| n       | 12      | Number of screwing holes           |
| n x t   | 30 °    | Split                              |

Temperature range

|       |        |                            |
|-------|--------|----------------------------|
| T min | -30 °C | Operating temperature min. |
| T max | 120 °C | Operating temperature max. |



Additional information

|          |                  |                                                                     |
|----------|------------------|---------------------------------------------------------------------|
| $c_{aL}$ | 4.600 N/ $\mu$ m | Rigidity axial                                                      |
| $c_{kL}$ | 2.900 Nm/mrad    | Tilting stiffness                                                   |
| $M_m$    | 29,8 kg*cm2      | Mass moment of inertia                                              |
|          | 1 $\mu$ m        | Axial runout                                                        |
| radial   | ZMA50/92         | Recommended INA precision locknut for radial locking (not included) |
| axial    | AM50             | Recommended INA precision locknut for axial locking (not included)  |
| $M_A$    | 180 Nm           | Tightening torque nut                                               |
|          | 36.224 N         | Required locknut force                                              |
|          | M10              | Screw size                                                          |
| $n_a$    | 12               | Number of screws                                                    |
| na x ta  | 30 °             | Division (screwing holes)                                           |

Właściwości

- 

Obciążenie promieniowe
- 

Obciążenie osiowe jednokierunkowe
- 

Obciążenie osiowe dwukierunkowe
- 

Smarowanie smarem
- 

Smarowanie olejem
- 

Bez uszczelnienia