

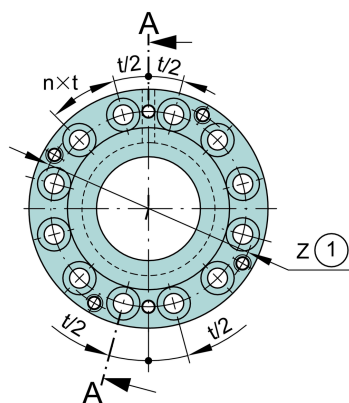
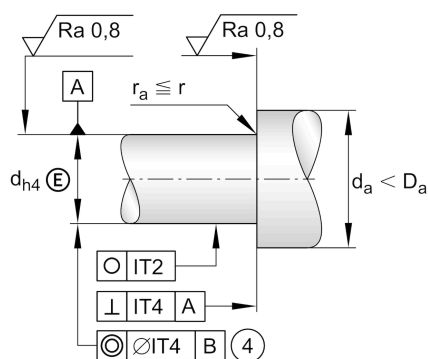
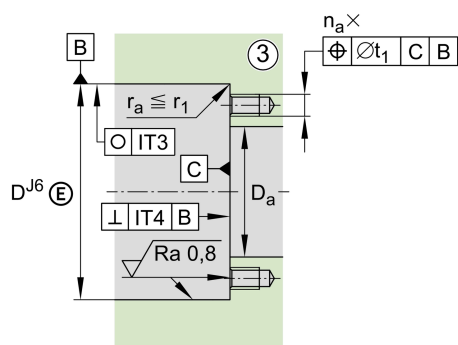
## ZARF40115-TV

### Needle roller/axial cylindrical roller bearing

Schaeffler ID:  
0016830630000

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

#### Technical information

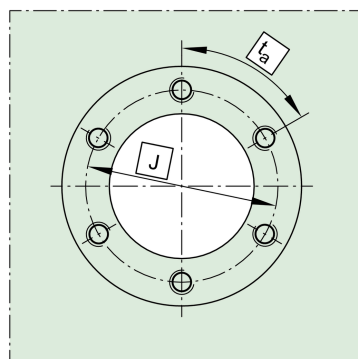
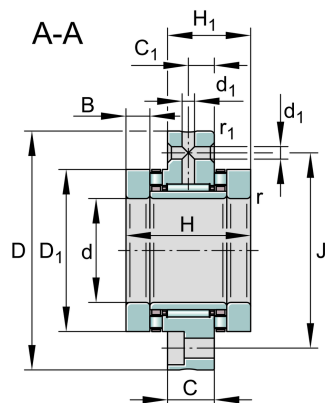


#### Main Dimensions & Performance Data

|                        |             |                                       |
|------------------------|-------------|---------------------------------------|
| d                      | 40 mm       | Bore diameter                         |
| D                      | 115 mm      | Outside diameter                      |
| H                      | 75 mm       | Height                                |
| $C_r$                  | 38,000 N    | Basic dynamic load rating, radial     |
| $C_{0r}$               | 74,000 N    | Basic static load rating, radial      |
| $C_a$                  | 117,000 N   | Basic dynamic load rating, axial      |
| $C_{0a}$               | 315,000 N   | Basic static load rating, axial       |
| $C_{ur}$               | 10,400 N    | Fatigue load limit, radial            |
| $C_{ua}$               | 27,000 N    | Fatigue load limit, axial             |
| $n_{G \text{ Grease}}$ | 1,200 1/min | Limiting speed for grease lubrication |
| $n_{G \text{ Oil}}$    | 3,700 1/min | Limiting speed for oil lubrication    |
| $M_{RL}$               | 2.5 Nm      | Bearing friction torque               |
|                        | 2.501 kg    | Weight                                |

#### Dimensions

|                     |                        |                                    |
|---------------------|------------------------|------------------------------------|
| $H_1$               | 47.5 mm                | Height outer ring over wave washer |
| $c_{aL}$            | 3,800 N/ $\mu\text{m}$ | Rigidity axial                     |
| $c_{kL}$            | 1,800 Nm/mrad          | Tilting stiffness                  |
| C                   | 22.5 mm                | Width, outer ring                  |
|                     | 1 $\mu\text{m}$        | Axial runout                       |
| $C_1$               | 12.5 mm                | Distance to lubrication hole       |
| $D_1$               | 78 mm                  | Rip diameter shaft washer          |
| $M_A$               | 120 Nm                 | Tightening torque nut              |
|                     | 29,834 N               | Preload force axial                |
| B                   | 16 mm                  | Width, inner ring                  |
| $r_{\text{min}}$    | 0.3 mm                 | Minimum chamfer dimension          |
| $r_{1 \text{ min}}$ | 0.6 mm                 | Minimum chamfer dimension          |
| $d_1$               | 6 mm                   | Diameter lubrication hole          |
| J                   | 94 mm                  | Pitch circle diameter (holes)      |
| $n \times t$        | 30 °                   | Split                              |
| $t_1$               | 0.2 mm                 | Position bore in the housing       |



**Mounting dimensions**

|              |                           |                                      |
|--------------|---------------------------|--------------------------------------|
| $D_{a \max}$ | 79 mm                     | Maximum diameter of housing shoulder |
| $d_{a \min}$ | 65 mm                     | Minimum diameter shaft shoulder      |
|              | ZMA40/75                  | Locknut 1                            |
|              | AM40                      | Locknut 2                            |
| n            | 12                        | Number (screwing holes)              |
|              | M8                        | Screw size                           |
| $M_M$        | 13.3 kg * cm <sup>2</sup> | Mass moment of inertia               |
| n            | 12                        | Number of screws                     |
| na x ta      | 30 °                      | Division (screwing holes)            |