

# Spindle bearings XCS71916-E-T-P4S (Series XCS719..-E)

{en:ROT.FAG.1836}

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all the guidelines in these overview pages. Further information is given on many products under the menu item "Description". You can also order comprehensive information via the Catalogue selection system ([https://www.schaeffler.de/content.schaeffler.de/en/news\\_media/index.jsp](https://www.schaeffler.de/content.schaeffler.de/en/news_media/index.jsp)) or by telephone on +49 (91 32) 82 - 28 97.

|         |                       |
|---------|-----------------------|
| d       | 80 mm                 |
| D       | 110 mm                |
| B       | 16 mm                 |
|         |                       |
| a       | 30,1 mm               |
| Da      | 104 mm Tolerance: H12 |
| da      | 86 mm Tolerance: h12  |
| r1 min  | 1 mm                  |
| ra1 max | 0,3 mm                |
| ra max  | 0,6 mm                |
| rmin    | 1 mm                  |
| α       | 25 ° Contact angle    |

|                     |             |                                                                                                                  |
|---------------------|-------------|------------------------------------------------------------------------------------------------------------------|
| m                   | 0,41 kg     | ≈ Mass                                                                                                           |
| C <sub>r</sub>      | 29500 N     | Basic dynamic load rating, radial                                                                                |
| C <sub>0r</sub>     | 14000 N     | Basic static load rating, radial                                                                                 |
| C <sub>ur</sub>     | 1060 N      | Fatigue limit load, radial                                                                                       |
| n <sub>G Fett</sub> | 22000 1/min | Limiting speed for grease lubrication<br>The limiting speeds are based on elastically preloaded single bearings. |
| F <sub>V L</sub>    | 79 N        | Preload force                                                                                                    |
| F <sub>V M</sub>    | 236 N       | Preload force                                                                                                    |
| F <sub>V H</sub>    | 473 N       | Preload force                                                                                                    |
| K <sub>aE L</sub>   | 226 N       | Lift-off force                                                                                                   |
| K <sub>aE M</sub>   | 686 N       | Lift-off force                                                                                                   |
| K <sub>aE H</sub>   | 1392 N      | Lift-off force                                                                                                   |
| C <sub>a L</sub>    | 130 N/μm    | Axial rigidity                                                                                                   |
| C <sub>a M</sub>    | 192 N/μm    | Axial rigidity                                                                                                   |
| C <sub>a H</sub>    | 248 N/μm    | Axial rigidity                                                                                                   |



