

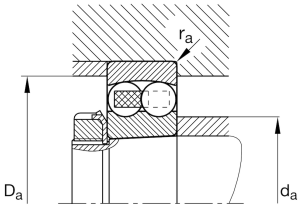
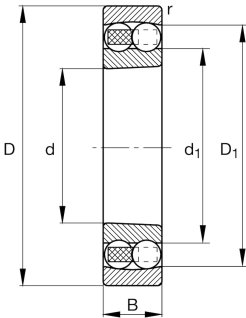
FAG

1216-K-TVH-C3

Self-aligning ball bearing

Self-aligning ball bearing 12..-K-TVH, tapered bore taper 1:12, plastic cage

Technical information



Your current product variant

|                           |              |                                                         |
|---------------------------|--------------|---------------------------------------------------------|
| Bore type                 | K            | Tapered, taper 1:12                                     |
| Sealing                   | Without      | Not sealed                                              |
| Cage                      | TVH          | Solid cage made of glass-fiber reinforced polyamid PA66 |
| Tolerance class           | PN           | Normal (PN)                                             |
| Lubricant                 | Without      | Bearing not greased                                     |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN                       |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 80 mm       | Bore diameter                     |
| D               | 140 mm      | Outside diameter                  |
| B               | 26 mm       | Width                             |
| C <sub>r</sub>  | 40,000 N    | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 17,000 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 1,020 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 5,300 1/min | Limiting speed                    |
| n <sub>gr</sub> | 5,100 1/min | Reference speed                   |
| ≈m              | 1.62 kg     | Weight                            |



Mounting dimensions

|                    |        |                                       |
|--------------------|--------|---------------------------------------|
| d <sub>a min</sub> | 91 mm  | Minimum diameter shaft shoulder       |
| d <sub>a max</sub> | 99 mm  | Maximum diameter shaft shoulder       |
| D <sub>a max</sub> | 129 mm | Maximum diameter of housing shoulder  |
| d <sub>b min</sub> | 85 mm  | Minimum cavity diameter of the sleeve |
| B <sub>a min</sub> | 6 mm   | Minimum cavity width of the sleeve    |
| r <sub>a max</sub> | 2 mm   | Maximum fillet radius                 |

Dimensions

|                  |           |                              |
|------------------|-----------|------------------------------|
| r <sub>min</sub> | 2 mm      | Minimum chamfer dimension    |
| D <sub>1</sub>   | 122.07 mm | Shoulder diameter outer ring |
| d <sub>1</sub>   | 101.75 mm | Shoulder diameter inner ring |

Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| T <sub>min</sub> | -30 °C | Operating temperature min. |
| T <sub>max</sub> | 120 °C | Operating temperature max. |

Calculation factors

|                |      |                                                                                  |
|----------------|------|----------------------------------------------------------------------------------|
| e              | 0.16 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y <sub>1</sub> | 3.93 | Dynamic axial load factor                                                        |
| Y <sub>2</sub> | 6.08 | Dynamic axial load factor                                                        |
| Y <sub>0</sub> | 4.12 | Static axial load factor                                                         |

Additional information

|      |                |
|------|----------------|
| H216 | Adapter sleeve |
|------|----------------|



Characteristics

-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed
-  Static angular error and misalignment
-  Dynamic angular error and misalignment