



FAG

**21304-E1-XL-TVPB**   
Spherical Roller Bearing

X-life

Technical information

Your current product variant

|                           |              |                           |
|---------------------------|--------------|---------------------------|
| Cage                      | TVPB         | Plastic cage              |
| Radial internal clearance | CN (Group N) | Normal internal clearance |

Main Dimensions & Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 20 mm        | Bore diameter                     |
| D               | 52 mm        | Outside diameter                  |
| B               | 15 mm        | Width                             |
| C <sub>r</sub>  | 41.000 N     | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 33.000 N     | Basic static load rating, radial  |
| C <sub>ur</sub> | 3.800 N      | Fatigue load limit, radial        |
| n <sub>G</sub>  | 16.000 1/min | Limiting speed                    |
| n <sub>gr</sub> | 9.700 1/min  | Reference speed                   |
| ≈m              | 0,158 kg     | Weight                            |

Mounting dimensions

|                    |       |                                      |
|--------------------|-------|--------------------------------------|
| d <sub>a min</sub> | 27 mm | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 45 mm | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 1 mm  | Maximum recess radius                |



Dimensions

|                  |         |                                    |
|------------------|---------|------------------------------------|
| r <sub>min</sub> | 1,1 mm  | Minimum chamfer dimension          |
| D <sub>1</sub>   | 43 mm   | Bore diameter outer ring           |
| d <sub>2</sub>   | 28,9 mm | Raceway diameter of the 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              | 0,3  | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y <sub>1</sub> | 2,25 | Dynamic axial load factor                                                        |
| Y <sub>2</sub> | 3,34 | Dynamic axial load factor                                                        |
| Y <sub>0</sub> | 2,2  | Static axial load factor                                                         |