



FAG

21307-E1-XL-TVPB

Spherical Roller Bearing

X-life

Informacje techniczne

Twoja aktualna wersja produktu

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

Main Dimensions & Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 35 mm        | Bore diameter                     |
| D               | 80 mm        | Outside diameter                  |
| B               | 21 mm        | Width                             |
| C <sub>r</sub>  | 83.000 N     | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 74.000 N     | Basic static load rating, radial  |
| C <sub>ur</sub> | 8.300 N      | Fatigue load limit, radial        |
| n <sub>G</sub>  | 10.900 1/min | Limiting speed                    |
| n <sub>gr</sub> | 6.800 1/min  | Reference speed                   |
| m               | 0,497 kg     | Masa                              |

Mounting dimensions

|                    |        |                                      |
|--------------------|--------|--------------------------------------|
| d <sub>a min</sub> | 44 mm  | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 71 mm  | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 1,5 mm | Maximum recess radius                |



Dimensions

|                  |         |                                    |
|------------------|---------|------------------------------------|
| r <sub>min</sub> | 1,5 mm  | Minimum chamfer dimension          |
| D <sub>1</sub>   | 66,6 mm | Bore diameter outer ring           |
| d <sub>2</sub>   | 47,4 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              | 0,26 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y <sub>1</sub> | 2,55 | Dynamic axial load factor                                                        |
| Y <sub>2</sub> | 3,8  | Dynamic axial load factor                                                        |
| Y <sub>0</sub> | 2,5  | Static axial load factor                                                         |