



FAG

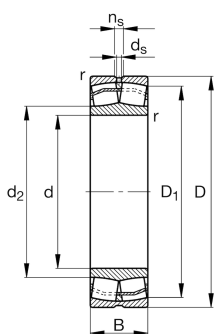
**21308-E1-XL-TVPB-C3**

## Spherical Roller Bearing

Spherical roller bearings 213...E1, main dimensions to DIN 635-2

X-life

## Informacje techniczne



## Twoja aktualna wersja produktu

|                           |              |                                   |
|---------------------------|--------------|-----------------------------------|
| Design                    | E1           | Without central rip               |
| Bore type                 | Z            | Cylindrical                       |
| Cage                      | TVPB         | Plastic cage                      |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN |
| Relubrication             | Standard     |                                   |

## Main Dimensions &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 40 mm       | Bore diameter                     |
| D               | 90 mm       | Outside diameter                  |
| B               | 23 mm       | Width                             |
| C <sub>r</sub>  | 109.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 107.000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 14.600 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 9.800 1/min | Limiting speed                    |
| n <sub>gr</sub> | 5.200 1/min | Reference speed                   |
| ≈m              | 0,68 kg     | Masa                              |

## Mounting dimensions

|                    |        |                                      |
|--------------------|--------|--------------------------------------|
| d <sub>a min</sub> | 49 mm  | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 81 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>   | 80,8 mm | Bore diameter outer ring           |
| d <sub>2</sub>   | 59,9 mm | Raceway diameter of the inner ring |
| d <sub>s</sub>   | 3,2 mm  | Diameter lubrication hole          |
| n <sub>s</sub>   | 4,8 mm  | Width of lubricating groove        |

Temperature range

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

Calculation factors

|                |      |                                                                                  |
|----------------|------|----------------------------------------------------------------------------------|
| e              | 0,23 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y <sub>1</sub> | 2,95 | Dynamic axial load factor                                                        |
| Y <sub>2</sub> | 4,4  | Dynamic axial load factor                                                        |
| Y <sub>0</sub> | 2,89 | Static axial load factor                                                         |

Właściwości

|                                                                                     |                                   |
|-------------------------------------------------------------------------------------|-----------------------------------|
|  | Obciążenie promieniowe            |
|  | Obciążenie osiowe jednokierunkowe |
|  | Obciążenie osiowe dwukierunkowe   |
|  | Smarowanie smarem                 |
|  | Smarowanie olejem                 |
|  | Bez uszczelnienia                 |
|  | Nieosiowość statyczna             |
|  | Nieosiowość dynamiczna            |