



FAG

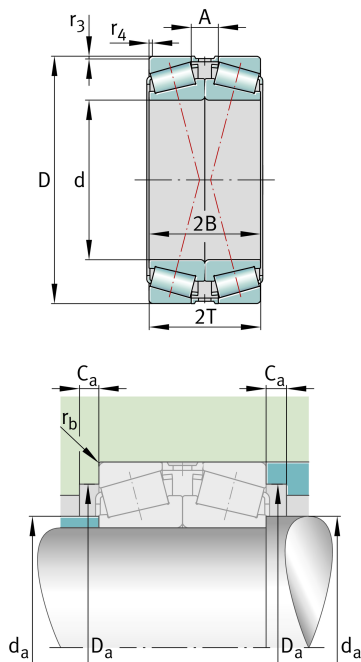
31308-XL-DF-A50-90

Tapered roller bearing set

Tapered roller bearing set 313...-DF, X-arrangement

X-life

Informacje techniczne



Twoja aktualna wersja produktu

|                          |          |                                               |
|--------------------------|----------|-----------------------------------------------|
| Tolerance class          | PN       | Normal (ISO 492:2023)                         |
| Heat treatment           | Standard |                                               |
| Cage                     | Standard | Sheet steel cage, window cage, roller-guided  |
| Axial internal clearance | A50-90   | Axial internal clearance between 50 and 90 µm |
| Quality level            | XL       | X-life                                        |
| Matched arrangement      | F        | X arrangement                                 |
| Number of rows           | 2        | Double-row design                             |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 40 mm       | Bore diameter                     |
| D               | 90 mm       | Outside diameter                  |
| 2B              | 46 mm       | Inner ring total width            |
| 2T              | 50,5 mm     | Outer ring total width            |
| C <sub>r</sub>  | 161.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 165.000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 24.700 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 9.600 1/min | Limiting speed                    |
| n <sub>gr</sub> | 5.100 1/min | Thermal speed rating              |
| ≈m              | 1,52 kg     | Masa                              |



Mounting dimensions

|             |        |                                      |
|-------------|--------|--------------------------------------|
| $d_{a\max}$ | 51 mm  | Maximum diameter of shaft shoulder   |
| $D_{a\min}$ | 71 mm  | Minimum diameter of housing shoulder |
| $D_{a\max}$ | 81 mm  | Maximum diameter of housing shoulder |
| $C_{a\min}$ | 4 mm   | Minimum axial space                  |
| $r_{b\max}$ | 1,5 mm | Maximum fillet radius of housing     |

Dimensions

|               |         |                                                   |
|---------------|---------|---------------------------------------------------|
| $r_{3,4\min}$ | 1,5 mm  | Minimum chamfer dimension of outer ring back face |
| A             | 16,5 mm | Width of spacer                                   |

Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 120 °C | Operating temperature max. |

Calculation factors

|       |      |                                                                                      |
|-------|------|--------------------------------------------------------------------------------------|
| e     | 0,83 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 0,82 | Dynamic axial load factor                                                            |
| $Y_2$ | 1,22 | Dynamic axial load factor                                                            |
| $Y_0$ | 0,8  | Static axial load factor                                                             |

Właściwości

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