



FAG

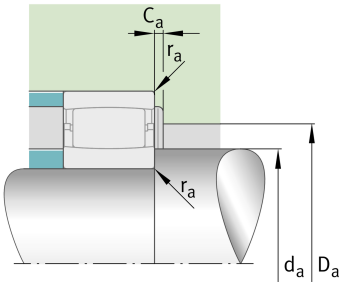
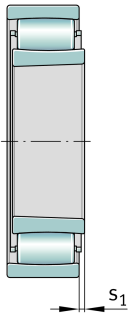
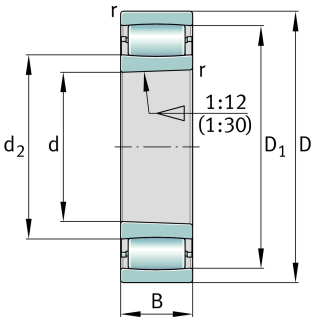
C3140-XL-K-M-C4

Toroidal roller bearing

Toroidal roller bearing C31...-XL-K-M

X-life

Informacje techniczne



Twoja aktualna wersja produktu

|           |   |                               |
|-----------|---|-------------------------------|
| Bore type | K | Tapered, taper 1:12           |
| Cage      | M | Solid brass cage, ball guided |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 200 mm      | Bore diameter                     |
| D               | 340 mm      | Outside diameter                  |
| B               | 112 mm      | Width                             |
| C <sub>r</sub>  | 1.600.000 N | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 2.300.000 N | Basic static load rating, radial  |
| C <sub>ur</sub> | 265.000 N   | Fatigue load limit, radial        |
| n <sub>gr</sub> | 1.120 1/min | Reference speed                   |
| n <sub>G</sub>  | 2.060 1/min | Limiting speed                    |
| ≈m              | 40,3 kg     | Masa                              |

Mounting dimensions

|                    |         |                                      |
|--------------------|---------|--------------------------------------|
| d <sub>a min</sub> | 214 mm  | Minimum diameter shaft shoulder      |
| d <sub>a max</sub> | 265 mm  | Maximum diameter shaft shoulder      |
| D <sub>a min</sub> | 290 mm  | Minimum diameter of housing shoulder |
| D <sub>a max</sub> | 326 mm  | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 2,5 mm  | Maximum fillet radius                |
| C <sub>a</sub>     | 1,25 mm | Minimum depth of free space Ca       |



### Dimensions

|            |          |                              |
|------------|----------|------------------------------|
| $r_{\min}$ | 3 mm     | Minimum chamfer dimension    |
| $d_2$      | 245,6 mm | Shoulder diameter of IR      |
| $D_1$      | 304,4 mm | Shoulder diameter outer ring |
| $S_1$      | 27,3 mm  | Axial displacement           |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 200 °C | Operating temperature max. |

### Calculation factors

|               |        |                                         |
|---------------|--------|-----------------------------------------|
| $k_{\delta}$  | 0,924  | Operating clearance factor $k_{\delta}$ |
| $k_{\varphi}$ | 11,848 | Tilting factor $k_{\varphi}$            |

### Właściwości



Obciążenie promieniowe



Smarowanie smarem



Bez uszczelnienia



Nieosiowość statyczna



Nieosiowość dynamiczna