

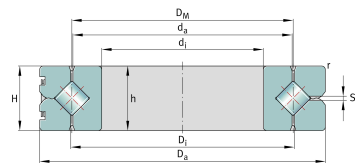


SX011836-A

Crossed roller bearing

Crossed roller bearingsdimension series 18 to  
DIN 616

Informacje techniczne



Main Dimensions & Performance Data

|     |           |                                  |
|-----|-----------|----------------------------------|
| d 1 | 180 mm    | Bore Diameter                    |
|     | 0,004 mm  | Bore diameter upper tolerance    |
|     | -0,021 mm | Bore diameter lower tolerance    |
| D a | 225 mm    | Outside Diameter                 |
|     | 0 mm      | Outside diameter upper tolerance |
|     | -0,029 mm | Outside diameter lower tolerance |
| H   | 22 mm     | Height of the assembled bearing  |
| h i | 22 mm     | Height inner ring                |
|     | 0,1 mm    | Width upper tolerance            |
|     | -0,1 mm   | Width lower tolerance            |
| ≈m  | 2,22 kg   | Masa                             |

Dimensions

|       |           |                                           |
|-------|-----------|-------------------------------------------|
| D i   | 202,8 mm  | Inner diameter outer ring                 |
| D M   | 202 mm    | Rolling element pitch circle diameter     |
| d a   | 201,2 mm  | Outer diameter inner ring                 |
| h     | 22 mm     | Height of individual ring                 |
|       | 0 mm      | Height of individual ring upper tolerance |
|       | -0,025 mm | Height of individual ring lower tolerance |
| r min | 1,1 mm    | Chamfer dimension                         |
| S     | 2 mm      | Diameter of lubrication hole              |



Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| T <sub>min</sub> | -30 °C | Operating temperature min. |
| T <sub>max</sub> | 80 °C  | Operating temperature max. |

Calculation factors

|                       |           |                                                                 |
|-----------------------|-----------|-----------------------------------------------------------------|
|                       | 0,015 mm  | Running accuracy, radial                                        |
|                       | 0,01 mm   | Running accuracy, axial                                         |
| S <sub>r min</sub>    | 0,005 mm  | Minimum radial bearing clearance, at standard bearing clearance |
| S <sub>r max</sub>    | 0,025 mm  | Maximum radial bearing clearance, at standard bearing clearance |
| S <sub>k min</sub>    | 0,01 mm   | Minimum axial tilting clearance, at standard bearing clearance  |
| S <sub>k max</sub>    | 0,05 mm   | Maximum axial tilting clearance, at standard bearing clearance  |
| RLO <sub>max</sub>    | 0,005 mm  | Low clearance: Radial clearance                                 |
| RLO <sub>max</sub>    | 0,01 mm   | Low clearance: Preload                                          |
| C <sub>a</sub>        | 98.000 N  | Basic dynamic load rating, axial                                |
| C <sub>0a</sub>       | 360.000 N | Basic static load rating, axial                                 |
| C <sub>r</sub>        | 70.000 N  | Basic dynamic load rating, radial (for radial load only)        |
| C <sub>0r</sub>       | 177.000 N | Basic static load rating, radial (for radial load only)         |
| N <sub>G oil</sub>    | 755 1/min | Limiting speed for oil lubrication with normal clearance        |
| N <sub>G Grease</sub> | 375 1/min | Limiting speed for grease lubrication with normal clearance     |
|                       | 61836     | Dimensions identical to ISO dimension series 18                 |



### Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Obciążenie osiowe dwukierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia



Mala przestrzeń zabudowy