

## Technical data

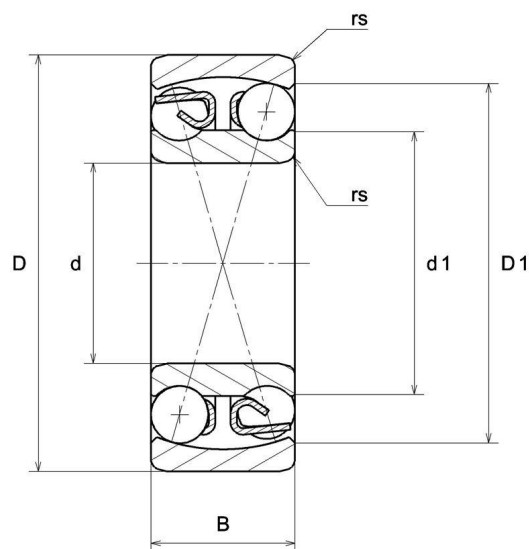
# 1220

Double-row self-aligning ball bearings



Self-aligning ball bearing, pressed steel cage, open

### VISUAL (S)



## PRODUCT DEFINITION

|                                          |          |
|------------------------------------------|----------|
| <b>Brand</b>                             | SNR      |
| <b>d - Internal diameter</b>             | 100 mm   |
| <b>D - External diameter</b>             | 180 mm   |
| <b>B - Bearing/Inner ring width</b>      | 34 mm    |
| <b>d1 - External diameter inner ring</b> | 127,2 mm |
| <b>D1 - Inner diameter outer ring</b>    | 153,4 mm |
| <b>rs - Min fillet radius</b>            | 2,1 mm   |
| <b>Radial clearance class</b>            | CN       |
| <b>Precision class</b>                   | P0       |
| <b>Mass</b>                              | 3,7 kg   |

## PRODUCT PERFORMANCE

|                                           |             |
|-------------------------------------------|-------------|
| <b>C - Dynamic load</b>                   | 68400000 mN |
| <b>C0 - Static load</b>                   | 29700000 mN |
| <b>Cu - Fatigue limit load</b>            | 1140000 mN  |
| <b>e - Coefficient</b>                    | 0.17        |
| <b>Y0 - Static axial load coefficient</b> | 3.81        |
| <b>Y1 - Lower axial load coefficient</b>  | 3.64        |
| <b>Y2 - Upper axial load coefficient</b>  | 5.63        |
| <b>N ref - Reference thermal speed</b>    | 27600 °/s   |
| <b>N lim - Mechanical Limit Speed</b>     | 28800 °/s   |
| <b>Tmin - Min operating temperature</b>   | 233,15 °K   |
| <b>Tmax - Max operating temperature</b>   | 393,15 °K   |



## BEARING FREQUENCIES

|                                                                 |           |
|-----------------------------------------------------------------|-----------|
| <b>BPFO - Over rolling frequency on outer ring (60 rpm)</b>     | 8.767 Hz  |
| <b>BPFI - Over rolling frequency on inner (60 rpm)</b>          | 11.233 Hz |
| <b>BSF - Over rolling frequency on rolling element (60 rpm)</b> | 7.932 Hz  |
| <b>BRF - Rotational frequency - rolling element (60 rpm)</b>    | 3.966 Hz  |
| <b>FTF - Rotational frequency - cage (60 rpm)</b>               | 0.438 Hz  |

## ABUTMENT

|                                                       |        |
|-------------------------------------------------------|--------|
| <b>da min - Min shoulder diameter IR</b>              | 111 mm |
| <b>Da max - Max shoulder diameter OR</b>              | 169 mm |
| <b>ra max - Max shaft &amp; housing fillet radius</b> | 2 mm   |

