

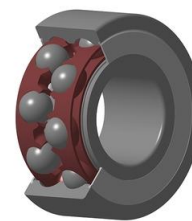


Brand of NTN corporation

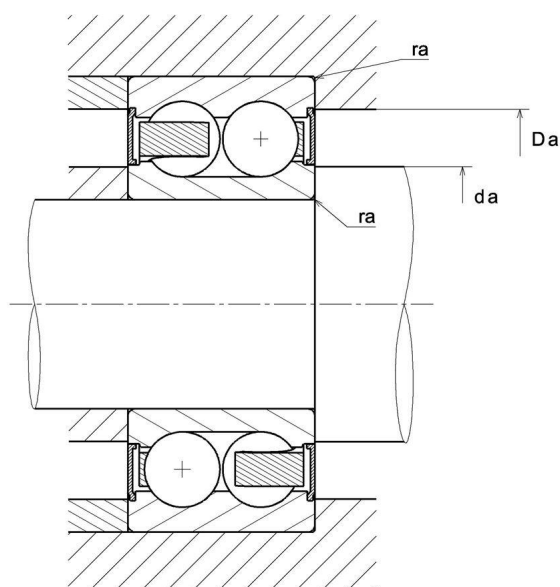
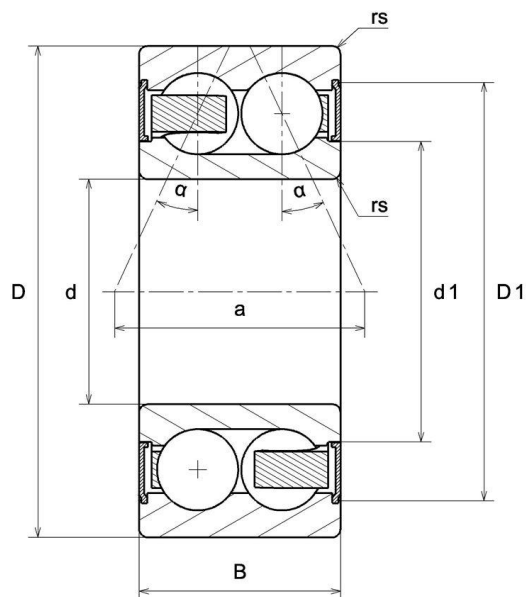
## Technical data

### 5309ZZG15

Double row angular contact ball bearings



#### VISUAL (S)



**NTN Europe**

1 rue des Usines · BP 2017 · 74010 Annecy Cedex · France · Tel. +33 (0)4 50 65 30 00  
S.A. au capital de 322 639 919 € · RCS ANNECY B 325 821 072 · Id. Fiscale : FR 48 325 821 072  
SIRET 325 821 072 00015 · Code APE 2815 Z · Code NACE 28.15

## PRODUCT DEFINITION

|                                          |         |
|------------------------------------------|---------|
| <b>Brand</b>                             | SNR     |
| <b>d - Internal diameter</b>             | 45 mm   |
| <b>D - External diameter</b>             | 100 mm  |
| <b>B - Bearing/Inner ring width</b>      | 39,7 mm |
| <b>d1 - External diameter inner ring</b> | 62 mm   |
| <b>D1 - Inner diameter outer ring</b>    | 86,5 mm |
| <b>a - Charge load application point</b> | 50,1 mm |
| <b>- Contact angle</b>                   | 25 °    |
| <b>rs - Min fillet radius</b>            | 1,5 mm  |
| <b>Radial clearance class</b>            | CN      |
| <b>Precision class</b>                   | P0      |
| <b>Mass</b>                              | 1,42 kg |

## PRODUCT PERFORMANCE

|                                         |             |
|-----------------------------------------|-------------|
| <b>C - Dynamic load</b>                 | 65800000 mN |
| <b>C0 - Static load</b>                 | 51000000 mN |
| <b>Cu - Fatigue limit load</b>          | 3150000 mN  |
| <b>f0 - Coefficient</b>                 | 13.9        |
| <b>N ref - Reference thermal speed</b>  | 33000 °/s   |
| <b>N lim - Mechanical Limit Speed</b>   | 31800 °/s   |
| <b>Tmin - Min operating temperature</b> | 253,15 °K   |
| <b>Tmax - Max operating temperature</b> | 393,15 °K   |

## BEARING FREQUENCIES

|                                                             |          |
|-------------------------------------------------------------|----------|
| <b>BPFO - Over rolling frequency on outer ring (60 rpm)</b> | 3.197 Hz |
|-------------------------------------------------------------|----------|



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## BEARING FREQUENCIES

|                                                                 |          |
|-----------------------------------------------------------------|----------|
| <b>BPFI - Over rolling frequency on inner (60 rpm)</b>          | 4.803 Hz |
| <b>BSF - Over rolling frequency on rolling element (60 rpm)</b> | 4.335 Hz |
| <b>BRF - Rotational frequency - rolling element (60 rpm)</b>    | 2.168 Hz |
| <b>FTF - Rotational frequency - cage (60 rpm)</b>               | 0.4 Hz   |

## ABUTMENT

|                                                       |        |
|-------------------------------------------------------|--------|
| <b>da min - Min shoulder diameter IR</b>              | 53 mm  |
| <b>da max - Max shoulder diameter IR</b>              | 62 mm  |
| <b>Da max - Max shoulder diameter OR</b>              | 92 mm  |
| <b>ra max - Max shaft &amp; housing fillet radius</b> | 1,5 mm |



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