

## Technical data

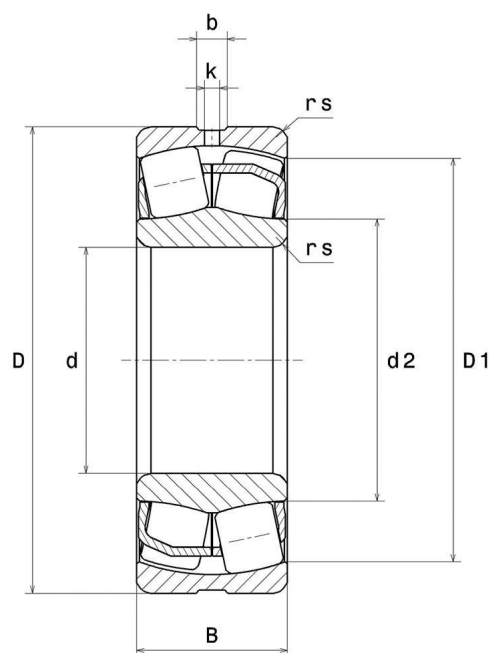
22214EAW33C3

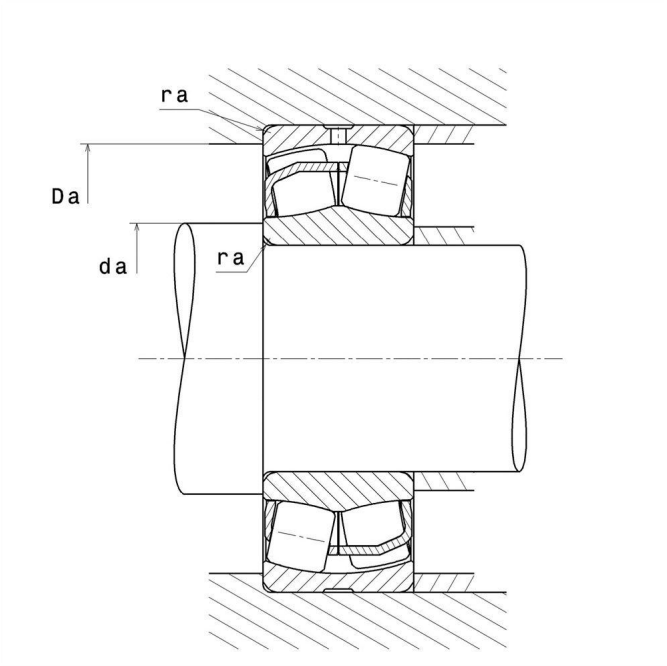
Spherical roller bearings



**ULTAGE®**

### VISUAL (S)





PRODUCT DEFINITION

|                                   |          |
|-----------------------------------|----------|
| Brand                             | NTN      |
| d - Internal diameter             | 70 mm    |
| D - External diameter             | 125 mm   |
| B - Bearing/Inner ring width      | 31 mm    |
| d2 - External diameter inner ring | 84,1 mm  |
| D1 - Inner diameter outer ring    | 112,7 mm |
| rs - Min fillet radius            | 1,5 mm   |
| Number of lubrication holes       | 3        |
| b - Groove width                  | 7,37 mm  |
| k - Hole diameter                 | 3,5 mm   |
| Radial clearance class            | C3       |
| Mass                              | 1,586 kg |

PRODUCT PERFORMANCE



## PRODUCT PERFORMANCE

|                                           |             |
|-------------------------------------------|-------------|
| <b>C - Dynamic load</b>                   | 235 kN      |
| <b>C0 - Static load</b>                   | 240 kN      |
| <b>Cu - Fatigue limit load</b>            | 29,3 kN     |
| <b>e - Coefficient</b>                    | 0.22        |
| <b>Y0 - Static axial load coefficient</b> | 2.94        |
| <b>Y1 - Lower axial load coefficient</b>  | 3.01        |
| <b>Y2 - Upper axial load coefficient</b>  | 4.48        |
| <b>N ref - Reference thermal speed</b>    | 4900 tr/min |
| <b>N lim - Mechanical Limit Speed</b>     | 6500 tr/min |
| <b>Tmin - Min operating temperature</b>   | -40 °C      |
| <b>Tmax - Max operating temperature</b>   | 200 °C      |

## ABUTMENT

|                                                       |        |
|-------------------------------------------------------|--------|
| <b>da min - Min shoulder diameter IR</b>              | 79 mm  |
| <b>Da max - Max shoulder diameter OR</b>              | 116 mm |
| <b>ra max - Max shaft &amp; housing fillet radius</b> | 1,5 mm |

## ESHOPDONOTDISPLAY

|                                 |                                                                                                                                                       |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tracepart</b>                | Oui/Yes                                                                                                                                               |
| <b>URL 3D Platform</b>          | <a href="https://www.traceparts.com/els/ntn-snr/goto?PartNumber=22214EAW33C3">https://www.traceparts.com/els/ntn-snr/goto?PartNumber=22214EAW33C3</a> |
| <b>Reference</b>                | 22214EAW33C3                                                                                                                                          |
| <b>Image</b>                    | SRBEAW33_1.jpg, SRBEAW33_2.jpg, SRBEAW33_3.jpg                                                                                                        |
| <b>ULTAGE</b>                   | Oui/Yes                                                                                                                                               |
| <b>Rolling element material</b> | Acier 100Cr6                                                                                                                                          |
| <b>Number of deflectors</b>     | 0                                                                                                                                                     |



ESHOPDONOTDISPLAY

Number of seals

0

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

| $F_a / F_r \leq e$ |    | $F_a / F_r > e$ |    |
|--------------------|----|-----------------|----|
| X                  | Y  | X               | Y  |
| 1                  | Y1 | 0.67            | Y2 |

Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

| $X_0$ | $Y_0$ |
|-------|-------|
| 1     | Y0    |

The values for e, Y1, Y2 and Y0 are shown in the above table .



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