



## NTN BEARING USA CORP.

60 mm x 110 mm x 28 mm SNR  
22212EAW33ZZC3 Double row spherical roller  
bearings

Bearing No. 22212EAW33ZZC3

|                                       |           |
|---------------------------------------|-----------|
| d                                     | 60 mm     |
| D                                     | 110 mm    |
| B                                     | 28 mm     |
| d2                                    | 71.9 mm   |
| D1                                    | 98.5 mm   |
| rs min                                | 1.5 mm    |
| Number of lubrication holes           | 3         |
| b                                     | 6.9 mm    |
| k                                     | 3 mm      |
| e                                     | 0.24      |
| Y1                                    | 2.84      |
| Y2                                    | 4.23      |
| Y0                                    | 2.78      |
| Radial clearance class                | C3        |
| Mass                                  | 1.18 kg   |
| Dynamic load, C                       | 187 kN    |
| Static load, C0                       | 181 kN    |
| Fatigue limit load, Cu                | 22 kN     |
| Nref                                  | 5,600 rpm |
| Nlim                                  | 7,500 rpm |
| Min operating temperature,<br>Tmin    | -40 ° C   |
| Max operating temperature,<br>Tmax    | 200 ° C   |
| Characteristic cage<br>frequency, FTF | 0.42 Hz   |

22212EAW33ZZC3 Bearing 2D drawings and 3D CAD  
models



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|   |         |
|---|---------|
| Characteristic rolling element frequency, BSF | 6.17 Hz |
| Characteristic outer ring frequency, BPF0     | 7.6 Hz  |
| Characteristic inner ring frequency, BPFI     | 10.4 Hz |
| da min  | 69 mm   |
| Da max  | 101 mm  |
| ra max  | 1.5 mm  |