



# NTN BEARING MANUFACTURING DE MEXICO,S...

140 mm x 300 mm x 102 mm SNR  
22328.EMW33 Double row spherical roller  
bearings

Bearing No. 22328.EMW33

d	140 mm
D	300 mm
B	102 mm
d2	181.7 mm
D1	260.3 mm
rs min	4 mm
Number of lubrication holes	3
b	18.9 mm
k	9 mm
e	0.33
Y1	2.03
Y2	3.02
Y0	1.98
Radial clearance class	CN
Mass	34.9 kg
Dynamic load, C	1,540 kN
Static load, C0	1,720 kN
Fatigue limit load, Cu	129 kN
Nref	1,600 rpm
Nlim	2,200 rpm
Min operating temperature, Tmin	-40 ° C
Max operating temperature, Tmax	200 ° C
Characteristic cage frequency, FTF	0.41 Hz

22328.EMW33 Bearing 2D drawings and 3D CAD  
models



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Characteristic rolling element frequency, BSF	5.3 Hz
Characteristic outer ring frequency, BPF0	6.57 Hz
Characteristic inner ring frequency, BPFI	9.43 Hz
da min	157 mm
Da max	283 mm
ra max	3 mm