



NTN BEARING USA CORP.

45 mm x 85 mm x 23 mm SNR 22209.EMKW33
Double row spherical roller bearings

Bearing No. 22209.EMKW33

d	45 mm
D	85 mm
B	23 mm
D1	75.6 mm
rs min	1.1 mm
Number of lubrication holes	3
b	5.8 mm
k	2.5 mm
Associated sleeve reference	H309
e	0.26
Y1	2.64
Y2	3.94
Y0	2.58
Radial clearance class	CN
Mass	0.45 kg
Dynamic load, C	116 kN
Static load, C0	106 kN
Fatigue limit load, Cu	11.8 kN
Nref	7,500 rpm
Nlim	9,800 rpm
Min operating temperature, Tmin	-40 ° C
Max operating temperature, Tmax	200 ° C
Characteristic cage frequency, FTF	0.42 Hz

22209.EMKW33 Bearing 2D drawings and 3D CAD models



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Characteristic rolling element frequency, BSF	6.07 Hz
Characteristic outer ring frequency, BPF0	6.73 Hz
Characteristic inner ring frequency, BRFI	9.27 Hz
da min	52 mm
Da max	78 mm
ra max	1 mm