



## BEARINGS(UK)LTD.

100 mm x 180 mm x 46 mm SNR  
22220.EMW33 Double row spherical roller  
bearings

Bearing No. 22220.EMW33

d	100 mm
D	180 mm
B	46 mm
D1	160.8 mm
rs min	2.1 mm
Number of lubrication holes	3
b	11.2 mm
k	5 mm
e	0.24
Y1	2.84
Y2	4.23
Y0	2.78
Radial clearance class	CN
Mass	4.76 kg
Dynamic load, C	472 kN
Static load, C0	495 kN
Fatigue limit load, Cu	52.6 kN
Nref	3,600 rpm
Nlim	4,600 rpm
Min operating temperature, Tmin	-40 ° C
Max operating temperature, Tmax	200 ° C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling	6.23 Hz

22220.EMW33 Bearing 2D drawings and 3D CAD  
models



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element frequency, BSF	
Characteristic outer ring frequency, BPF0	7.61 Hz
Characteristic inner ring frequency, BPF1	10.39 Hz
da min	112 mm
Da max	168 mm
ra max	2 mm