



BEARING ITALIA S.P.A

100 mm x 165 mm x 52 mm SNR
23120EMKW33C4 Double row spherical roller
bearings

Bearing No. 23120EMKW33C4

d	100 mm
D	165 mm
B	52 mm
D1	146.9 mm
rs min	2 mm
Number of lubrication holes	3
b	8.4 mm
k	4 mm
Associated sleeve reference	H3120
e	0.28
Y1	2.39
Y2	3.56
Y0	2.34
Radial clearance class	C4
Mass	4.4 kg
Dynamic load, C	471 kN
Static load, C0	575 kN
Fatigue limit load, Cu	46.3 kN
Nref	3,200 rpm
Nlim	3,900 rpm
Min operating temperature, Tmin	-40 ° C
Max operating temperature, Tmax	200 ° C
Characteristic cage frequency, FTF	0.44 Hz

23120EMKW33C4 Bearing 2D drawings and 3D CAD
models



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Characteristic rolling element frequency, BSF	7.57 Hz
Characteristic outer ring frequency, BPF0	9.6 Hz
Characteristic inner ring frequency, BPFI	12.41 Hz
da min	111 mm
Da max	154 mm
ra max	2 mm