

PDF technical sheet 23134EMW33



Double row spherical roller bearings

Spherical roller bearing, one-piece machined cage, groove and lubrication holes on outer ring

Product definition	
d	6.6929 "
D	11.0236 "
B	3.4646 "
D1	9.8307 "
rs min	0.0827 "
Number of lubrication holes	3
b	0.5394 "
k	0.2362 "
e	0.28
Y1	2.39
Y2	3.56
Y0	2.34
Radial clearance class	CN
Mass	76.02 oz
Brand	SNR



Product performance	
Dynamic load, C	1,270 kN
Static load, C0	1,700 kN
Fatigue limit load, Cu	112 kN
Nref	1,700 RPM
Nlim	2,300 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	392 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	7.74 Hz
Characteristic outer ring frequency, BPF0	9.63 Hz
Characteristic inner ring frequency, BPF1	12.38 Hz



Abutment dimensions

da min	7.1654 "
Da max	10.5512 "
ra max	0.0787 "

Calculation factors

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

Fa / Fr ≤ e		Fa / Fr > e	
X	Y	X	Y
1	Y1	0.67	Y2

Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

X ₀	Y ₀
1	Y0

The values for e, Y1, Y2 and Y0 are shown in the above table .