

PDF technical sheet 22234EMKW33C4



Double row spherical roller bearings

Spherical roller bearing, one-piece machined cage, groove and lubrication holes on outer ring, tapered bore 1:12

Product definition	
d	6.6929 "
D	12.2047 "
B	3.3858 "
D1	10.8819 "
rs min	0.1575 "
Number of lubrication holes	3
b	0.7087 "
k	0.3150 "
Associated sleeve reference	H3134
e	0.26
Y1	2.6
Y2	3.87
Y0	2.54
Radial clearance class	C4
Mass	98.77 oz
Brand	SNR



Product performance	
Dynamic load, C	1,400 kN
Static load, C0	1,610 kN
Fatigue limit load, Cu	136 kN
Nref	1,900 RPM
Nlim	2,700 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	392 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	6.11 Hz
Characteristic outer ring frequency, BPF0	7.58 Hz
Characteristic inner ring frequency, BPF1	10.42 Hz



Abutment dimensions

da min	7.3622 "
Da max	11.5354 "
ra max	0.1181 "

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 .